

# Peter Sjolin

Venice, 90291, CA • pigfozeria@gmail.com  
linkedin.com/in/pigfozeria • fuzzwuzz.xyz • github.com/pigfox • pigfox.com

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## SUMMARY

Software Developer with over 15 years of experience in building complex applications utilizing Go, Solidity, Rust, vanilla JavaScript full stacks, PostgreSQL/MySQL, and various blockchain technologies. Proven expertise in developing smart contracts, decentralized applications, and RESTful APIs, achieving significant performance improvements, such as optimizing processing times from over 8 hours to just 17 minutes.

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## WORK EXPERIENCE

### 06/2025 – Present Web3 Game Backend Developer (Solidity + Forge/Cast + Go), Fuzzwuzz.xyz *Remote*

- Engineered a Solidity NFT AlphaCard smart contract and deployed it on the Base mainnet using Forge.
- Developed a decentralized application (dAPP) leveraging Go for backend processes, while utilizing modular vanilla JavaScript, HTML, and CSS for frontend functionality.
- Facilitated Metamask-compatible integration for seamless user authentication and NFT minting.

### 04/2025 – 05/2025 ZK-SNARK / RISC Zero MVP Integration (Solidity + Forge + Rust), Catalyte.io *Remote*

- Constructed a proof-of-concept integration that links Solidity smart contracts (Forge) with zk-SNARK proof generation through the RISC Zero SDK.
- Devised Rust-based zkVM guest methods to generate zk-proofs for smart contract interactions, targeting the riscv32im-risc0-zkvm-elf architecture.
- Investigated cross-language proof delivery workflows bridging Rust and Solidity, including techniques for manual proof serialization and contract verification interfaces.
- Drafted initial Solidity verification contracts to ensure on-chain validation of off-chain generated zk-proofs.
- Prototyped comprehensive Forge-based tests simulating end-to-end processes: proof generation, proof delivery, and contract verification.
- Navigated the intricacies of the RISC Zero SDK toolchain (cargo-risczero, rzup), effectively resolving early-stage SDK build pipeline challenges.

### 04/2022 – 04/2025 Go Ethereum Developer / Blockchain Architect (Golang), Pigfox LLC (Contract) *Remote*

- Developed an arbitrage trading bot utilizing Go, employing goroutines, multi-wallet management, ERC-20 swaps, on-chain data pipelines, and real-time Subgraph indexing, tested with 37,425,000 token comparisons per request cycle.
- Engineered a Cosmos-SDK extension to integrate AI models for error detection and resolution in smart contracts.
- Oversaw the Solidity contract lifecycle through Dockerized ABI generation, Forge deployments, and contract verification pipelines.
- Created nft-prayers.org, an API-driven NFT minting factory utilizing Polygon Go routines, email notifications, and payment gateways.
- Constructed a Supabase-backed automotive parts trading platform using Python.

### 01/2021 – 04/2022 Go Developer @ nomihealth.com (Golang), nomihealth.com *Remote*

- Contributed to backend development utilizing the Go serverless framework AWS.
- Established rules for invoice adjudication, while implementing unit and integration tests.
- Involved AWS Lambda, DynamoDB, API Gateway, and S3 for infrastructure support.

### 11/2020 – 01/2021 Go Developer @ aspiration.com (Golang), aspiration.com *Remote*

- Developed a caching system in Go utilizing CircleCI for continuous integration.

### 01/2020 – 11/2020 Senior Software Developer, dyl.com *Remote*

- Constructed an ETL pipeline and gRPC API endpoints using GoSwagger 2 (OpenAPI 2.0), Postgres, Docker, Kubernetes, Kibana, and Cassandra for CI/CD in distributed systems.

- Authored shell scripts for automated Docker builds and deployments to Kubernetes, including unit tests for applications running on GCP.
- Mentored a junior developer to enhance team productivity.

**10/2019 – 10/2020 Senior Software Developer, Pigfox LLC** *Remote*

- Executed consulting projects with a startup firm in LA, maintaining MySQL databases while developing ETL pipelines and data analysis tools in Go that utilize both SQL and NoSQL databases.

**03/2019 – 08/2019 Senior Go Software Developer and Architect, metals.com** *Remote*

- Reverse engineered a call loop to develop a Single Page Application (SPA) with a RESTful API backend in Golang for user registration, login, and CRUD operations for groups and broadcasts, incorporating JWT for authentication.
- Utilized goroutines to efficiently target the Twilio API for concurrent SMS message delivery.
- Leveraged goroutines for conducting background database statistics.
- Implemented JSON for data transfer between the backend and front end, built in Vue.js.
- Integrated RabbitMQ for messaging operations.
- Facilitated CSV contacts imports into AWS AuroraDB, processing 732,432 rows within 60 seconds.
- Evaluated Kafka for potential use in asynchronous messaging.
- Employed Amazon State Language (ASL) for managing AWS Lambda step functions within workflows.
- Executed conversion of in-house data to/from OData v4.0 using Golang in JSON and XML.

**01/2014 – 03/2019 Senior Software Developer and Architect, PigFox LLC** *Remote*

- Developed APIs using Golang and Redis for Wadswap LLC and fikzt.com, enhancing performance and scalability.
- Implemented SEO strategies for Tradesy.com utilizing Phalcon PHP, while also composing unit and integration tests with MySQL/Redis on Docker/Kubernetes using Jenkins for CI.
- Utilized the Java Play framework to create a registration site, as well as built a RESTful API for Evox Images employing Node.js and Knex.js, with Chai tests for validation.
- Constructed a location-based service platform for fikzt.com using Node.js while developing a RESTful API in Golang and a PhoneGapped mobile app for wadswap.com.
- Produced a deprecated site for nospy.email using Laravel, aimed at encrypting all emails with personal keys for end-to-end encryption.

**06/2016 – 05/2018 MultiAPIController, flitways.com** *Culver City*

- Architected the MultiAPIController for flitways.com, facilitating the seamless addition of more provider APIs.
- Applied geospatial calculations (latitude/longitude) to optimize car/customer location accommodation for ride bookings with Lyft, Uber, and various other transportation providers.
- Developed numerous internal RESTful APIs and utilized OAuth2 for authentication processes regarding API access.
- Created SaaS solutions tailored for a variety of transportation providers, effectively expanding the primary API into microservices.

**03/2014 – 10/2014 Senior PHP Software Developer (Telecommuting), Securebuycommerce** *Remote*

- Deployed and set up a Magento Ecommerce website accompanied by customized data solutions.
- Led UX/UI design efforts, coding and populating the site with products while overseeing all aspects, including front page and checkout page development.
- Engineered a complex/custom plugin that encrypted personal data during transactions with the Securebuycommerce fraud API; transactions failing verification were terminated.

**02/2008 – 03/2014 Senior PHP/Python Software Developer, PigFox LLC** *Remote*

- Optimized MySQL tables for bank XML file processing in a Homeowners Association (HOA) to decrease runtime from approximately 8 hours to just 17 minutes by eliminating intermediate steps; backend developed in Laravel.
- Implemented infinite scrolling mechanisms for JSI.
- Developed an Android application for Spotkast that facilitated user login to an API and allowed picture uploads, analogous to functionality found in Facebook.
- Constructed an API for clip uploads via iPhone to a now-defunct URL.
- Integrated Google Two-Factor Authentication on BTCFunds, a Bitcoin exchange, enhancing security measures.
- Designed models and deployed Memcache for Scriball's infrastructure.

- Developed an integrated banking system, administering credits for real dollars utilized by JSI, a SaaS company.
- Created a sophisticated search function akin to Google's for JSI.
- Built a custom database query caching system for enhanced performance, achieving approximately 33% speed enhancement.
- Developed Drupal 7 modules on Amazon EC2, integrating MongoDB with JSON using jQuery AJAX.
- Constructed a data analysis tool in Python.
- Configured the LAMP stack on an Amazon EC2 server via PuTTY.
- Utilized Knockout.js for a CMS with MongoDB architecture.
- Rewired the 'Pingtree' project for a now-defunct URL using Zend, methodologically integrating multiple lender APIs.
- Created a web scraper in Python.
- Leveraged Zend/Smarty/Ajax to build components for a specified portal.
- Employed CodeIgniter 2.0 to construct a Twilio phone administration system for Coalition Technologies.
- Utilized Mocha UI for internal scheduling, actualization, and timecard asset management applications at Ntropic, a digital asset management solution.
- Revamped an older site using MVC principles to allow for diverse skinning the Salary Calculator across multiple formats, employing PHP/MySQL/Smarty/Ajax frameworks.
- Engineered a prototype for the Opportunity Lens Project for RAD Corp—a data mapping visualization solution combining features of phpMyAdmin and cPanel using LAMP/AJAX/Smarty.
- Reverse engineered the instant messaging application of mocospace.com for fotochatter.com and developed numerous custom CMS solutions while enhancing existing functionalities for spiritclips.com.
- Authored the entirety of rentnetworx.com utilizing Kohana 3 framework.
- Crafted modules in Symfony for ticketrush.com.
- Configured and modified Magento skins for cosmetic improvements.

**09/2007 – 02/2008 PHP Software Developer, eSpeed a division of Cantor & Fitzgerald** *Century City*

- Refined and enhanced functionality on ppx.popsoci.com, a virtual stock exchange platform.
- Redesigned ppx.popsoci.com from a procedural application to a strictly PHP object-oriented structure.
- Created RSS and XML feeds for widgets on ppx.popsoci.com.
- Authored SQL reports for identifying cheaters on ppx.popsoci.com.

**06/2007 – 08/2007 TekSystems Freelance @ AEG – PHP Software Developer, AEG** *Los Angeles*

- Developed an object-oriented PHP 5 content management system for <http://www.aeglive.com>, outlining and extending base classes for effective data manipulation in MySQL.

**06/2005 – 06/2007 PHP Software Developer, PigFox LLC (Own Business)** *Remote*

- Served clients including Yeahthatcommercial.com, iMedia, and DigiLink while working from locations in Los Angeles and Santa Monica (telecommuting).
- Acted as a Senior Web Developer and Database Designer focused on PHP 4 & 5 and MySQL facilities.
- Created a member-driven site, allowing users to upload pictures, videos, and resume-type information, modeling functionality akin to Youtube.com and Myspace.com.
- Designed a frontend to manage secured login capabilities and multi-level user settings for an Asterisk open-source telephone system (site on restricted domain).
- Implemented Oscommerce on Lloydsofhollywood.com.
- Developed a click tracking and reporting system utilizing Web Services (XML) to integrate with Amazon.com.
- Established URL rewriting through .htaccess (mod\_rewrite) to optimize search engine visibility.
- Designed custom CMSs that automatically adapted to changing database structures alongside another CMS for photo management.
- Constructed surveys, dynamic forms, databases, and dynamic queries.
- Executed a Business Process Management application with secure login over SSL, complete with dynamic tables and shared folders, managing user roles and email notifications for project progress.

**03/2005 – 04/2005 PHP Software Developer, Juicewireless.com** *New York*

- Served as a Senior Developer, crafting complex, data-driven wireless web applications.
- Responsible for database design and extensions within the database architecture.

- Generated pages enabling authenticated users to manipulate data and wrote dynamic forms equipped with error-catching scripts.
- Employed technologies such as CURL, XHTML, PHP 4.3.1, MySQL, JavaScript, and CSS.

**11/2004 – 03/2005 PHP Software Developer, Eeminder.com** *Remote*

- Engineered a robust, data-driven business web application.
- Collaborated on designing the database and extending it with additional schemas, implementing 15 tables within the database.
- Authored complex multiple queries featuring authenticated user login functionality, while writing sorted queries displayed across multiple pages, utilizing XHTML, OO PHP, MySQL, JavaScript, and CSS.

**12/2003 – 11/2004 CTO, FunkyVenice.com** *Los Angeles*

- Served as the Chief Architect and Designer, implementing the full scope of site.
- Integrated an off-the-shelf shopping cart into the platform.
- Utilized PHP, XHTML, frames, iframes, and CSS technologies throughout the project.

**09/2003 – 12/2003 Java Developer, Naxcom.com** *Los Angeles*

- Crafted queries for Oracle to display inventories of online shop items.
- Edited Struts for the navigation interface of the website.
- Employed Java, JSP, XML, and Struts to enhance web functionalities, while progressively building and evolving RESTful API via versioning.

**EDUCATION**

**1996 – 1999 University of California at Los Angeles** *Los Angeles*

BS, General Mathematics with specialization in computing

**SKILLS**

Go/Golang	RESTful APIs	SMS app development
NFT-minting factory	AWS Lambda	DynamoDB
API Gateway	S3	Node.js
TypeScript	Solidity	AI
Web3 Game Development	Forge	Cast
Javascript	HTML	CSS
Metamask integration	ZK-SNARK	RISC Zero SDK
Rust	zkVM	Rust-based zkVM guest methods
Solidity verification contracts	Arbitrage trading bot	Goroutines
Multi-wallet management	ERC-20 swaps	On-chain data pipelines
Subgraph indexing	Cosmos-SDK	AI models integration
Smart contract error detection	Smart contract lifecycle management	Dockerized ABI generation
Docker	NFT minting factory	Polygon
Email notifications	Payment gateways	Python
Supabase	Automotive parts trading platform	Go-Ethereum
Blockchain Architecture	DEX data ETL	Runtime gas calculations
ABI/bin/APIs generation	Shell scripting	ERC-721 token minting
OO python3 car parts trading application	MDM	Serverless framework
Invoice adjudication rules	Unit testing	Integration testing
Caching system	CircleCI	ETL pipeline
gRPC API endpoints	GoSwagger 2.0	OpenAPI 2.0
Postgres	Kubernetes	Kibana
Cassandra	GitLab CI/CD	Automated Docker build
GCP	Data analysis tools	NoSQL
SQL	SPA development	JWT authentication
Salesforce API integration	CSV import	Twilio API
Database statistics	Vue.js	RabbitMQ

AWS AuroraDB	Kafka	Amazon State Language (ASL)
AWS Lambda step functions	OData v4.0	JSON
XML	Redis	Fikzt.com API
SEO strategy	Phalcon PHP	MySQL
Jenkins CI/CD	Java Play framework	Knex.js
Chai tests	Location based service platform	PhoneGap
Wadswap.com API	nospay.email	Laravel
End-to-end encryption	MultiAPIController	Provider APIs integration
Geospatial calculations	Lat/lon calculations	Lyft API integration
Uber API integration	Transportation provider APIs	OAuth2 authentication
SaaS solutions	Microservices architecture	Custom widgets
Oracle RightNow platform	Website development	API development
HR data solutions	Educational data solutions	Angular 1 admin module
CRUD API	OPP Python	Custom CMS
Magento Ecommerce	UX/UI design	Custom plugin development
Securebycommerce fraud API integration	ACH payments	Bank XML file processing
Laravel backend	Infinite scroll implementation	Android app development
Spotkast API integration	Picture upload functionality	Clip upload API
Google two factor authentication	Bitcoin exchange	Memcache implementation
Bank system development	Admin module development	Google like search implementation
DB query caching system	Drupal 7 modules	Amazon EC2
MongoDB	JSON querying	jQuery AJAX
Data analysis tool development	LAMP stack installation	PuTTY
Knockout.js	Pingtree project	Rewiring Lender APIs integration
Webscraper development	Twilio phone admin system	Mocha UI
Internal scheduling application	Actualization application	Timecard asset management application
Portal framework	Digital asset management system	Web content management system
Salary calculator turnkey solution	MVC approach	Skinning implementation
Opportunity Lens Prototype Project	Data mapping visualization solution	EAV implementation
Smarty templating	AJAX	fotochatter.com
Spiritclips.com functionality	Rentnetworx.com development	Kohana 3 framework
Symfony modules	Ticketrush.com modules	Magento installation
Magento skin modification	Reporting tool development	TAPIOCA API implementation
3Cinteractive API implementation	ppx.popsoci.com modifications	ppx.popsoci.com reengineering
PHP5 OO solution	RSS feed generation	XML feed generation
SQL reports	AEG Live CMS	Data manipulation in MySQL
Member driven site development	Video streaming functionality	Secured login system
Multi-level user management	Asterisk telephone system integration	Oscommerce implementation
Click tracking system	Reporting system	Web Services (XML) integration
Amazon.com store integration	URL rewriting	mod_rewrite
Search engine optimization	Dynamic forms	Dynamic tables
Dynamic queries	Business Process Management app	Secure login over SSL
Dynamic folders	Wireless Web application development	Authenticated user data editing
CURL	XHTML	Complex multiple queries
Sorted queries display	OO PHP	Struts
Oracle 9i	Java	JSP
RESTful API versioning	Symfony	Zend
Kohana	CodeIgniter	CakePhp
Smarty Templates	Savant 3 Templates	X/D/HTML
jQuery	DOM	Responsive design
PHP 7	XML/XSL	Apache
Weblogic	SOAP	MySQL 5 stored procedures
MSSQL 7	Win NT/2K Pro	SUN Solaris 6.02
Solaris Sparcstation 20	Red Hat	Mandrake
Suse	Ubuntu Linux	Bash
C	C++	Ultra Edit
Notepad++	Eclipse	Navicat
MS SourceSafe	Tortoise SVN Subversion	Perforce
GIT	Google AdSense	Google Webmaster
URL rewrite	gospider	Ahrefs

Semrush  
WooCommerce  
Wordpress  
MatLab  
AIM  
LAMP installation  
Remix  
Ganache  
Data Architecture  
WASM/Web Assembly  
Bitbucket  
Practical Byzantine Fault Tolerance  
Mentor  
Leadership

Screaming Frog  
X-Cart  
HTMX  
Mathematica  
R53 load balancer  
Authorize.net  
Hardhat/Typescript  
Jenkins  
Data Analytic  
GitHub  
SAST  
ECC  
Clear communication  
Distributed systems

Magento  
osCommerce  
Expression Engine  
EC2 security group configuration  
SSL setup  
PayPal  
Truffle  
Data Visualization  
Jira  
Gitlab  
DAST  
Team leader  
Collaborative problem-solving  
Kafka

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## **LANGUAGES**

English

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## **CERTIFICATES**

Sun Certified Programmer for the Java 2 Platform 1.4 – Sun