

Rich Vigorito

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OBJECTIVE

Staff Software Architect / Lead Backend Engineer with 20+ years of experience building reliable, secure, event-driven systems—from load balancer to database. Passionate about developer-first tools, high-performance infrastructure, and delivering well-aligned, cross-functional outcomes.

TECH STACK

	✓ <u>Architected/Owned</u> • 10+ years • Production / Recent	● <u>Professional Use</u> • 2–6 years; • Production Team Setting	◆ <u>Relevant Experience</u> • Personal Project Use • Work Related POCs
Languages / Frameworks	PHP/Laravel • Bash	Node.js • C# • Java	Typescript • Go • Python • C++
Databases/ Caching	MySQL • Redis • Memcached • Varnish	Solr/Elasticsearch	MongoDB
Infra/Hosting	Linux • HAProxy • nginx • Fail2Ban • AWS S3	Redis Pub/Sub • Apache • MySQL High Availability • DigitalOcean (infra ops) • Cloudflare • Azure [Functions, Blob, Service Bus, ARM deployments]	AWS [EC2, Lambda, Route53, DynamoDB – POCs]
Tools / DevOps	Docker • Bitbucket CI/CD • Percona PMM (Grafana/Prometheus Dashboards) • Jenkins • Nagios		
Integrations	Orderful (EDI) • Stripe • Paypal • Mailgun • Hubspot • Betterstack • Avalara		

WORK EXPERIENCE

Supplystream Inc - Principal Architect, Lead Backend Developer

January 2022 - April 2025 (Fully Remote • Early-stage startup • Logistics/Dropshipping/Pricing Mgmt)

- **Architected and brought to market** the company's core backend system and API platform — transforming a raw concept into a production-grade system supporting real-world operations.
- **Designed scalable platform** architecture, using event storming and DDD principles to model workflows and organize the codebase by domain. Delivered robust data models, infrastructure strategy, deployment pipelines, and event-driven components for key integrations/workflows.
- **Led the backend team through the full SDLC:** requirements, architecture, implementation, testing, CI/CD — focusing on velocity, operational stability, and an event-sourced core.
- **Built and operated** secure, observable infrastructure on DigitalOcean using Fail2Ban, BetterStack, HAProxy, and Nginx for monitoring, load balancing, and threat detection.
- **Mentored junior developers**, promoting growth through code reviews, architecture discussions, and collaborative problem-solving

Oregon Catholic Press - Software Architect, Sr Application Developer

June 2007 - January 2022 (Hybrid • Portland, OR • Music & Book Publishing)

- **Led application development SDLC** for public-facing websites, internal REST APIs and internal admin tools, overseeing technical output of both internal and contractor teams.
- **Architected and led the rollout** of a HAProxy-based load balancing solution, replacing a costly legacy appliance and collaborating with IT to improve reliability, health checks, and security (Fail2Ban).
- **Designed and implemented integrations** in azure between web apps and backend ERP systems, leveraging DDD
- **Developed CI/CD pipelines** and observability systems, improving release reliability and system insight.

Inspiredware - Application Developer

April 2004 - April 2008 (Ashland, OR)

- Develop school check-in/check-out software in C++

PERSONAL PROJECTS

Parlabot:

Built to sharpen my Italian and explore modern ASR pipelines.

A work-in-progress pronunciation coach using Hugging Face speech and language models (including STT and TTS). Built as a microservice system with API orchestration, audio processing, and MongoDB persistence

Tech: React, Go (Gin), Python (FastAPI + Torch), MongoDB, Kong

 github.com/richvigorito/parlabot

Dev Challenges For Teams

Created to foster collaboration, learning, and culture-building within engineering teams.

A growing set of multiplayer dev challenges, games and mini-races used for team get togethers. Includes a quiz game ("Flip Cup") and a translation of Wirth's *Algorithms + Data Structures = Programs* into Python, Go, and C++. Published as a  [LinkedIn newsletter](#)—originally created as a hands-on resource to bring to future teams.

Tech: Go, Svelte, WebSockets, GitHub Actions, Markdown, Python, C++

 github.com/richvigorito/dev-challenges

 github.com/richvigorito/flip-cup | Live demo: flipcup.fly.dev

 github.com/richvigorito/the-best-programming-book-ever-written

NLP Parsers

Originally built to help a friend formalize recipe content for a nutrition-tracking app.

Lexer and parser system to convert semi-structured recipe text into structured data, used in support of foodgeeks.com and its companion project tummy.io (since retired). Includes a grammar-based tokenizer in PHP and a recursive descent parser currently being ported to C to support other semi-structured data like product listings, groceries lists, addresses, etc

Tech: PHP, C, Regex, Compiler Design, Recursive Descent, LL(k)

 github.com/richvigorito/RecipeParser

 github.com/richvigorito/Lexer

EDUCATION

Southern Oregon University

- 2005 BS Computer Science
- 2007 MS Computer Science

Portland State University

- 2013/14 Phd Coursework in CS

PERSONAL

- DIY Home Automation
- 5x NJCAA National Champion Wrestling Coach at Clackamas Community College

LANGUAGE

- English (Native)
- Italian (B2-upper intermediate)