SIMON TINCHURIN
Python Developer

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Experienced Python Developer with over 4 years in backend development, specializing in high-load systems, AI-driven chatbots, and business process automation. Throughout my career, I have designed and optimized scalable solutions for logistics, fintech, CRM, and multilingual platforms. My expertise includes API development, data processing, asynchronous programming, and system integration. I have worked with both startups and enterprise clients, ensuring high performance, stability, and seamless automation of complex workflows. Passionate about clean code, problem-solving, and staying ahead of emerging technologies to deliver efficient and innovative solutions.

Core Skills

Python, Golang, FastAPI, Flask, Django, REST API, OpenAI, LangChain, LlamaIndex, Streamlit, Asyncio, Uvicorn, Requests, Aiohttp, BS4, NumPy, Pandas, Matplotlib, Pytest, Postman, SQLAlchemy, Alembic, PostgreSQL, MySQL, MongoDB, RabbitMQ, Redis, Docker, AWS, Linux, Git, GitHub, Bitbucket, S3, Kafka, Stripe, Google Play Billing, Firebase Cloud Messaging, S3-compatible Object Storage, DigitalOcean Spaces, WebSockets, Server-Sent Events (SSE), Redis Pub/Sub, RBAC, JWT / Token-Based Authentication, GitLab.

Work Experience

PythonBackend Developer
June 2025 - Oct 2026

NDA | Remote

Development of a health-tech platform providing personalized health recommendations, AI-powered services, and subscription-based access to health management features.

Responsibilities and Key Achievements:

- Developed and maintained backend services using Python, FastAPI, asynchronous programming, and PostgreSQL.
- Designed modular backend architecture with separation of API, business logic, data access, and repository layers.
- Implemented a multi-contour data access architecture separating analytics, support operations, and sensitive user data.
- Developed service-to-service authentication with role-based permissions, scoped access tokens, credential rotation, and access auditing.
- Designed and implemented a subscription management system with feature availability, access permissions, and usage limits for different subscription plans.
- Integrated Stripe and Google Play Billing for subscription payments and billing workflows.
- Developed APIs for user onboarding, profile progress tracking, personalized daily recommendations, and health data management.
- Implemented analytics APIs for user engagement, onboarding funnels, subscription metrics, and administrative reporting.
- Developed a notification system using Redis and Firebase Cloud Messaging, including device management, delivery preferences, and notification lifecycle.
- Implemented asynchronous messaging and real-time communication using Redis Pub/Sub, WebSockets, and Server-Sent Events.
- Developed support conversation functionality with message history, file attachments, and secure object storage.
- Implemented internal service health checks, centralized version reporting, and release management for web and mobile applications.
- Worked with database schema design, Alembic migrations, query optimization, and production troubleshooting.
- Initiated a third-party dependency license audit during intellectual property transfer to identify licensing compliance issues and mitigate potential legal risks.

Technologies:

Python, FastAPI, Asyncio, PostgreSQL, SQLAlchemy, Alembic, Redis, Kafka, Docker, Stripe, Google Play Billing, Firebase Cloud Messaging, WebSockets, SSE, S3-compatible Object Storage, DigitalOcean Spaces, GitLab, Linux, REST API, RBAC.

Results:

Contributed to the development of a scalable health-tech backend integrating personalized services, subscription billing, analytics, and mobile applications.
Strengthened platform security through granular access control, service authentication, and sensitive data isolation.
Improved platform maintainability and operational reliability through modular architecture, centralized monitoring, and standardized service integrations.

Python Developer

Mar 2025 - May 2025

Mobile App Development Studio | Remote

Designed and developed two independent backend systems for mobile applications entirely from scratch. Managed the full development cycle — from architecture design and infrastructure setup to deployment, documentation, and post-release maintenance. All backend development was completed single-handedly.

Project 1: CRM-Integrated Mobile Application
Development of a backend service for a mobile app synchronized with a third-party CRM system. Focused on real-time data exchange, API reliability, and process automation.

Responsibilities and Key Achievements:
Integrated the mobile app with an external CRM via REST API, WebSockets, and Webhooks.
Developed a custom CRM client handling token-based authentication, session lifecycle, and Redis caching.
Built synchronization logic ensuring continuous data consistency between the app and CRM.
Implemented secure authorization, detailed logging, and error tracking.
Designed and optimized PostgreSQL schemas with connection pooling and indexed queries.
Automated migrations and schema evolution using Alembic.
Deployed the backend using Docker and docker-compose across dev and prod environments.
Configured Nginx, SSL certificates, and domain routing via HTTPS.
Automated deployment with Bash scripts and prepared detailed developer documentation.
Integrated Firebase push notifications for real-time user updates.

Technologies:
Python, FastAPI, PostgreSQL, SQLAlchemy, Alembic, Redis, Docker, Docker Compose, Nginx, Bash, Firebase, REST API, WebSockets, Webhooks, Pydantic.

Project 2: Restaurant Table Booking Platform
Developed a complete backend system for a restaurant reservation mobile app, including a full admin web interface for venue managers, hosts, and administrators.

Responsibilities and Key Achievements:

Designed and implemented all core booking logic: slot scheduling, reservation management, and user notification workflows.
Built separate routers and access roles for admins, hosts, and restaurant managers to manage reservations, working hours, and schedules.
Developed and optimized database schemas for availability tracking and booking validation.
Implemented background tasks for checking upcoming reservations and handling booking conflicts.
Designed API endpoints for both mobile and web clients with comprehensive validation and authorization layers.
Deployed services in Docker containers and configured production environment with Nginx and SSL.
Authored setup guides, API documentation, and Postman collections for QA testing.

Technologies:
Python, FastAPI, PostgreSQL, SQLAlchemy, Alembic, Redis, Docker, Docker Compose, Nginx, Pydantic, REST API.

Results:
Successfully delivered two production-ready backend systems with distinct architectures and business domains.
Achieved stable, scalable, and secure deployments with full automation of build and deployment pipelines.
Improved project maintainability through clean architecture, detailed documentation, and modular design.

Python Developer Dec 2024 - Feb 2025

Marketplace integration and Logistics| Remote

Development of a high-load integration service connecting a marketplace and an airline carrier, processing over 10,000 parcels daily. The project focused on automating logistics processes, including both direct and return shipments.

API Development and Optimization:

- Implemented API methods for working with documents and logistics records.
- Developed API methods for registering cargo departures and receiving parcels from pickup points.
- Added API methods for managing shipments and cargo units.

Bug Fixing and Process Optimization:

- Identified and fixed the issue of cyclic registration attempts for return shipments.
- Prevented the transmission of incorrect data to the marketplace.
- Fixed unit conversion issues for logistics calculations.
- Improved logging and debugging of API requests.

Background Tasks and Marketplace Integration:

- Configured background tasks for sending departure data.
- Developed background tasks for retrieving shipments and cargo units from pickup points.
- Automated dictionary and reference data migration from the old system using Alembic.
- Implemented logic for linking internal shipments with external shipments registered in Ozon.

Database and Project Architecture:

- Designed and optimized database schemas for shipment and parcel tracking.
- Added new fields to ensure seamless cargo tracking.
- Improved error handling in business logic to prevent invalid operations.

Testing and CI/CD:

- Developed integration and unit tests using pytest and pytest-asyncio.
- Created documentation and instructions for running and configuring automated tests.
- Set up an automated testing environment for the backend application.

Technologies:

- FastAPI, PostgreSQL, SQLAlchemy, Alembic, Redis, Docker, Docker Compose, Pytest, HTTPX, Pydantic.

Results:

- Successful migration of the client to the new version of the service (2.0).
- Implementation of both the direct shipment flow (marketplace -> pickup point) and the return shipment flow (pickup point -> marketplace).
- Ensured stable service operation handling over 10,000 parcels per day.

Python Developer Sep 2023 - Dec 2024

Aistrospace | Remote

Development of AI-driven chatbots and analytical tools to enhance business operations across multiple industries, including petroleum and fintech. Focused on dataset analysis, chatbot training, and seamless integration into company workflows.

Chatbot Development and Integration:

- Developed a chatbot for the petroleum industry, designed to analyze internal documentation and assist employees in decision-making.
- Created a fintech chatbot capable of analyzing financial metrics and generating investment plans on demand, improving strategic planning processes.
- Ensured seamless integration of chatbot solutions into company operations, enhancing productivity and

workflow automation.

Data Analysis and Optimization:
Analyzed training datasets and weight distributions to improve chatbot accuracy and performance.
Optimized database systems to ensure data integrity and high efficiency in chatbot responses.
Collaborated with data scientists to align chatbot functionalities with business objectives.

Software Development and Infrastructure:
Implemented containerization technologies to simplify the deployment and scaling of chatbot applications.
Managed API integrations and backend optimizations for enhanced performance.
Improved chatbot architectures to support scalable, high-performance interactions.

Technologies:
Python, FastAPI, PostgreSQL, Docker, SQLAlchemy, Pydantic, REST API, OpenAI, LangChain, LlamaIndex, Streamlit, Asyncio.

Results:
Successfully deployed AI-driven chatbots tailored to industry-specific needs.
Improved chatbot response accuracy and efficiency through optimized dataset analysis.
Enhanced business operations by automating decision-making and workflow processes.

Python Developer May 2022 - Dec 2023
CMT | Saint Petersburg

Development and automation of CRM systems, optimizing business processes, and improving operational efficiency for enterprise users.

API Development and System Integration:
Worked with REST APIs and technical documentation to integrate third-party services into CRM systems.
Developed applications for CRM platforms, improving functionality and user experience.

Business Process Automation:
Designed and automated six key business processes within CRM,
significantly reducing document approval time.
Managed daily operations for 160 users,
including file and directory permission configurations within the CRM.

Engineering and Data Processing:
Developed over 100 Python scripts for engineering calculations,
enhancing operational efficiency and accuracy.
Conducted troubleshooting and issue resolution for CRM applications, ensuring system stability.

Technologies:
Python, REST API, CRM Systems, Automation, SQL, Git, Linux.

Results:
Reduced document approval time through CRM automation.
Improved system efficiency and accuracy with engineering automation scripts.
Maintained seamless daily operations for a large user base.

Python Developer Mar 2023 - Jun 2023
Freelance

Developed and optimized backend systems, focusing on data handling, database design, and multilingual support.

Backend Development and API Optimization:

Developed backend functionality for projects using Django and FastAPI.
Worked with server and Docker container logs to monitor and troubleshoot system performance.

Data Handling and Localization:
Finalized methods for saving and uploading data in JSON format,
enabling translation of project components into English and Portuguese.
Modified the database schema and restructured the relationship between user and country tables,
improving support for multilingual functionality.

Technologies:
Python, Django, FastAPI, PostgreSQL, Docker, SQLAlchemy.

Results:
Enhanced backend performance and data management.
Enabled seamless project translation into multiple languages.
Improved system stability and monitoring through log analysis.

Education

Baltic State Technical University Sep 2015 - Feb 2021

Languages

English (B2), Russian (fluent)