

Sergei Alekseev

Istanbul, GMT+3 · 35 hours per week · 9 AM - 9 PM GMT+3, with breaks

[Upwork](#) [GitHub](#) <https://sergei.backnd.pro>

SUMMARY

With 15 years of extensive experience in backend development and a versatile skill set that includes frontend capabilities, I specialize in creating robust, high-performance applications. My expertise spans Python, Java, AWS, Docker, and various modern web technologies. I excel in backend logic development, web scraping, REST API development, performance optimization, database management, and process automation. I am passionate about researching, debugging, and enhancing code to achieve optimal performance and maintainability. Currently based in Istanbul (GMT+3), I am available for up to 35 hours per week, providing high-quality work to help achieve your business goals.

SKILLS

Languages	Python (Flask, Django, DRF, Requests, SQLAlchemy, BeautifulSoup, Pytest), Java (Core Java, Dropwizard, Hibernate, REST, JUnit, Maven), Clojure
Web	Flask, Django, Django Rest Framework, Vue.js, React.js, AngularJS, JavaScript, TypeScript, HTML, CSS, Bootstrap, jQuery, Clojurescript
Databases	PostgreSQL, MySQL, SQLite, MongoDB, Redis, Elasticsearch, AWS DynamoDB, SQL Server, BigQuery, LanceDB, Vector Databases
DevOps & Cloud	Docker, Docker Compose, Kubernetes, AWS, GCP, Nginx, Apache, Linux, Git
APIs	Twilio API, OpenAI API, SOAP, REST API, ManageEngine ServiceDesk Plus, ShopifyAPI, ebaysdk, Paramiko
AI / ML	Semantic Search, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Model Finetuning, Prompt Engineering
agentic engineering	Claude Code, Cursor, GitHub Copilot, MCP Servers, Context Engineering, Spec-Driven Development, Multi-Agent Orchestration, AI Code Review

SELECTED PROJECTS

ElasticSearch Image Search & Metadata Generation Platform

Lead Developer & Consultant

Designed and implemented a robust ElasticSearch-based image management system capable of handling over 1.5 million images with dynamic metadata search. Enhanced image search capabilities by generating descriptive metadata through OpenAI's API integration, significantly enriching search flexibility. Provided consultancy for system architecture and optimization.

Python · ElasticSearch · OpenAI API · Nginx · JavaScript · HTML · Git · Linux · Digital Ocean

Fintech Backend Development (Fair Play)

Senior Backend Developer

Worked extensively on backend architecture for a fintech startup, developing user portals, financial data management interfaces, reporting tools tailored to Czech regulatory requirements, and integrated Openbanking API standards. Managed bug fixes, documentation, and application performance optimization on GCP.

Python · Django · Django Rest Framework · Celery · Google Cloud Platform · Bootstrap · Linux · Git · Openbanking API

Twilio & WebSocket Integration for Automated Call Management

Lead Developer

Built a real-time web-based application that integrates with Twilio to automate call management and response detection. It included voice-to-text conversion, dynamic keyword-based human/robot detection, real-time WebSocket communication, and an admin panel for managing call settings and keyword detection logic. Delivered statistical insights on call metrics stored in SQLite.

Python · Flask · SQLite · Twilio · TwiML · Google Cloud Speech-to-Text · DeepGram API · Vosk Model · Docker · JavaScript · HTML · CSS · Git

Financial Analytics Dashboard with Flask

Backend Developer

Contributed to a comprehensive financial management dashboard offering robust account management, transaction data acquisition, preprocessing, and reporting capabilities. Developed a flexible role-based access system, interactive charts, and visual analytics using JavaScript libraries (Chart.js, D3.js), and integrated third-party APIs for transaction data.

Python · Flask · Pytest · Docker · Docker Compose · Nginx · Apache · Linux · Vue.js · Chart.js · D3.js · Git

Credit Product Backend for Fintech Startup (Upwardli)

Python Backend Developer

Participated in backend development for a fintech product aimed at simplifying credit launches by companies. Responsibilities included creating business logic, REST APIs, and solving complex backend issues.

Python · Docker · PostgreSQL · Django · Django Rest Framework · React.js

Agentic Engineering Workflow

Agentic Engineer

Transitioned to an agentic engineering workflow where AI coding agents handle implementation while I focus on architecture, specification, and code review. I use Claude Code as my primary terminal-native agent for multi-file refactoring, test generation, and codebase-wide changes, and Cursor for interactive feature development with real-time feedback. My workflow follows spec-driven development: I write detailed specifications and architectural constraints before any code is generated, then orchestrate agents to implement against those specs. I run multiple agents in parallel using git worktrees, each working on isolated tasks with their own context. Context engineering is central to my process — I maintain structured CLAUDE.md files, project-specific rules, and session discipline to keep agent output consistent and high-quality. I also write custom Claude Code skills (reusable slash commands packaged as SKILL.md files) to automate repetitive workflows — SEO research, deployment pipelines, code validation, data ingestion — so that complex multi-step processes can be triggered with a single command. Every AI-generated change goes through the same review rigor as a human PR: tests must pass, security must be verified, and I must be able to explain every line before it ships.

Claude Code · Cursor · MCP Servers · GitHub Copilot · OpenAI API · Anthropic API · Context Engineering · Spec-Driven Development

AREAS OF INTEREST

Backend logic development · AI agents · LLM-based integrations · Web scraping · Web applications · REST API development · Performance optimization · Console utilities · Database applications · Data mining · Agentic Engineering