

Grigoriy Chepel

Software Engineer | Backend Systems & Technical Product Development

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PROFILE

Software engineer with an aerospace engineering background and 4+ years of programming and applied engineering experience. My work has progressed from engineering simulation to backend systems and broader technical product ownership: translating partially defined requirements into system structure, data models, APIs, business workflows, infrastructure, testing and production delivery. I am now focused on technology management, AI-driven products, software architecture and engineering leadership, with the goal of growing from implementation ownership toward technical product and technology leadership roles.

EDUCATION & PROFESSIONAL TRAINING

Samara National Research University | Specialist Degree (Engineer) 2024

Design, Manufacturing and Operation of Rocket and Space Systems

Specialization: Modeling and Information Technologies in Rocket and Space Systems Design. Engineering studies included mathematical modeling, programming, information technologies and complex technical systems.

Netology | Professional Training Certificate - Python Developer: Advanced Course 2026

Advanced professional training in Python software development and backend engineering.

PROFESSIONAL EXPERIENCE

Innoprogram | Backend Developer / Technical Consultant / Programming Instructor 2025 - Present

- Develop internal backend products and features using Python, FastAPI, PostgreSQL, SQLAlchemy, Alembic, Docker and pytest.
- Contributed to an internal teacher motivation and rewards platform: activity-based scoring, reward limits, transaction history, rankings, promo-code workflows and administrative controls.
- Work across API design, data modeling, business rules, CI/testing, integration constraints and technical troubleshooting, turning operational requirements into maintainable implementation.
- Teach programming and backend development through project-based lessons, code review and technical mentoring, helping students progress from language fundamentals to complete applications.

Independent / Project-based Software Development | Backend Developer & Technical Consultant 2024 - Present

- Build and improve backend systems and MVPs with FastAPI, Django/DRF and Flask, covering data models, APIs, authentication, integrations, background jobs, testing and deployment.
- Translate product requirements into technical scope, milestones and system structure; review existing codebases, diagnose failures and propose pragmatic architecture and implementation changes.
- Work with PostgreSQL, Redis, Celery, MinIO, Docker, Linux and CI/CD across greenfield products and existing production systems.

Samara National Research University | Senior Laboratory Assistant 2022 - 2024

- Developed Python and MATLAB software for flight-dynamics simulation in an engineering research environment.
- Worked with mathematical models, engineering data, technical documentation and software-hardware systems.
- Participated in debugging applied engineering solutions and preparing technical materials for research and educational work.

SELECTED PRODUCT & ENGINEERING WORK

AION | *AI-assisted Telegram message classification and response system*

Python · Telegram · LLM workflows · systemd · CI/testing

- Developed and validated a Python-based system that classifies relevant messages, generates knowledge-grounded responses and maintains safe operational modes before enabling real sending.
- Worked on classifier quality, fallback logic, multi-account canary/shadow deployments, system services, logs, CI and reliability issues in a live messaging environment.

RoboSharing | *Multi-region equipment sharing / rental platform*

Django · PostgreSQL · Docker · OpenStreetMap · Telegram · Railway/Cloudflare

- Worked across product and backend delivery: localization, inventory administration, geolocation/map flows, support-bot integration, deployment and production fixes.
- Improved operational workflows and customer-facing behavior while coordinating application logic, infrastructure and release/testing concerns.

SwipeLab | *Creator tool for social-media carousel projects*

Web product · JavaScript/front-end workflows · automated testing · CI/deployment

- Developed product workflows for project creation, duplication, search, favorites, import/export, authentication and mobile behavior, with automated tests supporting release confidence.
- Contributed to premium product design including AI-assisted generation, voice input and background-removal capabilities, while iterating on UX and deployment readiness.

PointPulse TaskFlow | *Task-management backend*

FastAPI · PostgreSQL · SQLAlchemy · Alembic · Redis · Celery · MinIO · Docker

- Designed APIs and persistence for projects, lists/columns, tasks, statuses, ordering and user access; added authentication and attachment workflows.
- Set up migrations, background jobs and a Docker Compose development environment with PostgreSQL, Redis and MinIO.

TECHNICAL & PRODUCT CAPABILITIES

Backend & Data: Python, FastAPI, Django/DRF, Flask, REST APIs, PostgreSQL, SQLAlchemy, Alembic, Redis, SQLite

Infrastructure: Docker, Docker Compose, Linux, Celery, MinIO, Git/GitHub, Railway, CI/CD; working familiarity with Kafka and cloud-native concepts

Architecture & Delivery: API design, service/repository layers, authentication/authorization, background processing, integrations, event-driven workflows, testing, debugging, requirements decomposition

AI & Automation: LLM API integration, intent classification, knowledge-grounded response workflows, AI-assisted product features

Additional: JavaScript/TypeScript, HTML/CSS, Telegram platform development, MATLAB

TEACHING, COMMUNITY & PROFESSIONAL DIRECTION

- Teach and mentor students in programming, backend development and project work; design practical learning paths and review code and architecture decisions.
- Author a Russian-language Telegram blog, @grigo_it, about backend development, software engineering and practical technology topics.
- Current interests: Technology Management, Technical Product Management, AI-Driven Products, Software Architecture, Distributed Systems, Cloud Infrastructure and Engineering Leadership.