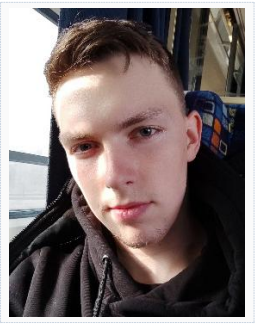
Denys Shcherbatyi



AI-Native Fullstack Engineer | Python · FastAPI · TypeScript · Next.js

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SUMMARY

Fullstack engineer with 2+ years of experience in Python and TypeScript. Recently built a commercial AI-powered SaaS platform end to end: architecture, FastAPI backend, Next.js frontend, Google Cloud infrastructure, CI/CD, Stripe billing, and a multi-agent LLM pipeline. I work through an agent-driven workflow: custom AI subagents handle codebase research, test writing and first-pass review, while I own the architecture, specify the implementation and review every change behind automated quality gates. Also shipped the product as an MCP server for AI assistants.

TECHNICAL SKILLS

Backend: Python, FastAPI, Pydantic, Django / DRF, REST APIs, asyncio, SSE, WebSockets, Background Tasks
Frontend: TypeScript, JavaScript, Next.js, React, TanStack Query, Tailwind CSS, Three.js, Browser Extensions
Databases: MongoDB (MongoEngine), PostgreSQL, SQLAlchemy, Redis, MySQL, SQLite
AI & LLM: Multi-agent LLM Pipelines, AI Agents, MCP, Vertex AI, Structured Outputs, Prompt Engineering
AI-Native Workflow: Claude, Claude Code (custom subagents, skills, hooks), Gemini, GPT
Cloud & DevOps: Google Cloud (Cloud Run, Tasks, Storage, Secrets), Docker, GitHub Actions CI/CD, Linux
Integrations: Stripe, Sentry, PostHog, Mailgun
Auth & Security: OAuth 2.0, JWT, NextAuth, Argon2
Testing & Quality: pytest, Vitest, Playwright, mypy, Ruff, ESLint, Bandit, SOLID
Tools: Git, GitHub, PyCharm, WebStorm

SOFT SKILLS

Clear communication with both technical and non-technical colleagues — management, project managers, designers, content creators and marketing. Turning product concepts into architecture, task breakdowns and shipped features in close collaboration with stakeholders. Ownership of technical decisions and delivery. Fast learner — picks up new tools and frameworks as projects demand.

WORK EXPERIENCE

AI-Native Fullstack Engineer | Contract · US-based company (NDA)

Sep 2025 – Aug 2026 | Remote

Commercial AI-powered SaaS platform for content analysis — from first commit to production.

- Designed the architecture and built the platform end to end — Python / FastAPI backend and Next.js / TypeScript frontend with a shared design system
- Built a multi-agent LLM pipeline: specialised agents work in parallel, and their structured outputs are combined into a single scored report
- Designed fault tolerance for non-deterministic AI output — incomplete results never reach users, and failed runs recover without repeating costly steps
- Optimised resource usage for heavy processing workloads, keeping the service stable under concurrent jobs
- Delivered an MCP server with secure OAuth 2.0 authorization, letting AI assistants work with the product on users' behalf
- Built automated CI/CD with secure deployments, safe database migrations and isolated environments
- Implemented subscription billing with usage quotas, real-time progress updates, an admin console and privacy features (data export, account deletion, data retention)
- Moved development to an AI-native workflow: custom subagents for research, testing, review and documentation checks, backed by one automated quality gate (linting, typing, security scans, architecture rules, test coverage) shared by local runs and CI

Scale: 1,300+ backend tests · 80+ documentation pages incl. 20+ ADRs · 1,100+ commits
Stack: Python, FastAPI, MongoDB, LLM APIs, MCP, TypeScript, Next.js, React, Tailwind CSS, Docker, Google Cloud

Freelance Fullstack Developer | Self-employed
May 2024 – Sep 2025

Sync-Mate-Extension — Browser extension for synchronized video watching with friends

- Built a cross-browser extension with a FastAPI WebSocket backend for real-time play, pause and seek sync across shared sessions
- Set up Vitest tests and automated builds with GitHub Actions

Stack: TypeScript, React, Tailwind CSS, WXT, FastAPI, WebSockets, Vitest

Campus-Navigate-3D — Interactive 3D university campus map with guided tours · Live demo · Backend

- Built a React + Three.js frontend with animated camera routes, bounded free-camera controls and location info panels, optimised for large 3D models
- Developed a Django REST API with an admin panel for locations, flight paths and 3D models; containerised with Docker

Stack: React, Three.js, Vite, Django, DRF, PostgreSQL, Docker

University-Moderation — Cross-platform Discord & Telegram bot for a university community

- Built moderation and role management, schedule sync across platforms, event scheduling, music streaming and a multiplayer mini-game
- Integrated Spotify and OpenWeatherMap APIs, a FastAPI service and a PostgreSQL backend

Stack: Python, discord.py, pyTelegramBotAPI, FastAPI, PostgreSQL, Lavalink

Check-Point-SHOP — Telegram bot for ordering products with dormitory delivery

- Built customer and admin flows: catalog, orders, payment confirmation, live order status and inventory management with role-based access

Stack: Python, pyTelegramBotAPI, SQLAlchemy, PostgreSQL

Other projects: **Neural-Network-Labyrinth** — maze game where a neural network learns to navigate procedurally generated levels (TensorFlow, Keras) · **Miner-2D** — multiplayer 2D sandbox with procedural worlds and client-server sync over sockets (Pygame)

EDUCATION

FH St. Pölten (University of Applied Sciences)
Erasmus+ Exchange Semester, Computer Science | Feb 2025 – Jul 2025 | St. Pölten, Austria

National University of Chernihiv Polytechnic (NUChP)
Bachelor's Degree in Computer Science | Sep 2021 – Jun 2025 | Chernihiv, Ukraine

LANGUAGES

Ukrainian — Native | English — Intermediate (B1)