

Matthew Demidoff

Student software engineer · TypeScript/Node, Python, Rust · Novi Sad, Serbia

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Second-year student at Računarska gimnazija Smart, a computer-science secondary school in Novi Sad, graduating 2029. Shipping production software since 2025 for a Moscow warehouse brokerage and for my own project group, Bottleneck. Looking for a software engineering internship on a team with code review and production scale.

Available part-time during term and full-time over the summer; remote, or on-site in Novi Sad.

EDUCATION

Računarska gimnazija Smart, Novi Sad · secondary school diploma, computer-science track expected 2029

EXPERIENCE

Software engineer, Novy Sklad (Новый Склад) 2025 – present

Remote · commercial warehouse brokerage, Moscow region · TypeScript, Python

- Built the tooling around the agency's amoCRM and reworked the sales workflow end to end, from inbound enquiry to closed deal; used by all five brokers.
- Built the brokers' LLM assistant: transcribes client calls, fills in the deal in the CRM, finds matching warehouses in the listing base, suggests the follow-up, and drafts the property teaser.
- Routed email and Telegram enquiries into one lead queue, and automated publishing and updating of the company's Avito listings through the official Avito API.

Software engineer, Bottleneck (own project group, bneck.com) 2025 – present

Remote · TypeScript, Next.js, Postgres, Redis, Docker, GCP, Cloudflare

- Built and run **Bottleneck Auth**, a self-hosted OAuth 2.0 / OIDC provider written from scratch rather than on a library: authorization code with PKCE, device flow, pushed authorization requests, dynamic client registration behind admin approval, refresh-token rotation with reuse detection, and passkeys (WebAuthn) or Telegram as a second factor. It is the sign-in for the group's apps. github.com/bnecko/auth
- Shipped it like a product: about 25k lines, 68 test files (Vitest, Playwright), a CI pipeline that runs dependency audit, migrations, typecheck, tests and the Docker build on every push, and a conformance document stating what is and is not implemented.
- Built **MiniComm**, a lightweight messenger (server and web client) signed in through Bottleneck Auth, in open beta at app.bneck.com; started as a Telegram mini-app.
- Run the group's infrastructure: a self-hosted server with about 20 containers plus GCP, behind Cloudflare Tunnels, with health-checked rolling deploys.

Software engineer, AVANTDEMI · property agency, Novi Sad 2026 – present

- Built the agency's public site; also handle part of the client communication.

References from Novy Sklad and AVANTDEMI available on request.

OPEN-SOURCE PROJECTS

- **img2svg** – Rust-to-WebAssembly vectorizer that turns a raster image into a layered SVG. Quantises colours in OKLab before tracing, so layers match the colours a person would actually name; runs entirely in the browser. Vite/TypeScript front end. github.com/matthew-demidoff/img2svg
- **webdav-export** – exports a Yandex Disk account to a local folder over WebDAV; Python standard library only. github.com/matthew-demidoff/webdav-export
- **quick-tip-overlay** – Chrome MV3 extension: select text, get an answer from a chosen LLM in a page overlay. TypeScript. github.com/matthew-demidoff/quick-tip-overlay

SKILLS

Programming	TypeScript / Node.js, Python, Rust
Infrastructure	Docker, Google Cloud Platform, Yandex Cloud, Cloudflare (DNS, Tunnels, Pages), Postgres, Redis
AI	LLM integration (OpenAI, Anthropic, Gemini, local models); fine-tuning on GCP
Languages	Russian (native), English (C1), Serbian (B2)