

Jaka Mencinger

Full-Stack Developer

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PROFILE

Informatics graduate who has built and shipped two production SaaS products end to end — requirements, data model, API, frontend, deployment and maintenance. I work in TypeScript (Next.js, React, Prisma) and Python (FastAPI, SQLAlchemy) on PostgreSQL, and I have shipped AI features into real products: document OCR with schema-validated outputs, generated listing copy, automated valuations. I run both products in production myself, including migrations, backups and failure alerting.

EXPERIENCE

Junior Software Engineer — Uroš Mencinger s.p.

Oct 2024 – present

Independent development of SaaS products and web solutions, from requirements to production and maintenance.

- **Built and maintain** two SaaS products currently running in production — roughly 110,000 lines of my own code across 667 commits, plus three further live projects.
- I operate the production myself: deploys, database migrations, nightly backups to object storage, and email alerting on failure.
- Integrated AI into shipped features: document reading, generated listing descriptions and property valuations via the Anthropic API.
- Worked with clients from requirements through delivery; one food-service business uses the HACCP product daily and drives its roadmap.

Software Development Intern — Logix

3 months

- Worked inside a development team on React and Linux tasks — first exposure to team process and code review.

Waiter — student work

3 years

- Communication under sustained pressure and shift-team coordination.

SELECTED PROJECTS

Kontrolnik — HACCP compliance SaaS

[kontrolnik.com](#) · 2026

Next.js 16, React 19, TypeScript, Prisma 7, PostgreSQL, better-auth, Stripe, Tailwind, Vitest, Playwright, Docker, Railway

- Digitises legally mandated food-safety records: QR-code entry of temperatures and cleaning, deviation handling, PDF/Excel reports and a one-click inspection pack. Built from first commit to paying production in 34 days.
- **AI document reading.** OCR of delivery notes using Claude with structured outputs — the response must satisfy a zod schema or it is rejected. Results are never saved automatically; they pre-fill a form the user confirms. After pilot feedback I added a guard that clears the supplier field when the model returns the user's own company. Target cost is about one cent per document, with a daily per-company quota.
- **635 automated tests.** 232 unit, 377 integration and 26 end-to-end (~15,500 lines of test code). Integration tests run against a real PostgreSQL; e2e runs on a mobile device profile.
- **Works offline.** A hand-written service worker with an IndexedDB outbox keeps the app usable when kitchen wi-fi drops; entries deduplicate on a unique client-generated ID, and late arrivals are flagged in reports.
- **Security and billing.** Single-choke-point tenant scoping with the company ID always derived server-side, 404-not-403 on rejected reads, magic-byte upload validation with EXIF stripping, and Stripe webhooks verified on the raw body.

TvojAgent — real-estate CRM

[tvojagent.com](#) · 2025–2026

FastAPI, Python, SQLAlchemy, Alembic, PostgreSQL, Next.js, shadcn/ui, SWR, Leaflet, Docker Compose · 456 commits, ~79,400 lines

- Full CRM for estate agents: properties, clients, viewings, meetings, listings, contracts, invoices, documents and public listing pages. Also served as my graduation thesis.
- **AI features.** Generated listing descriptions from few-shot examples and AI-assisted property valuation, with retry and exponential backoff.
- **Government registry integration.** Connected to the national cadastre (eProstor search API and OGC WFS) so a property can be created straight from public records, converting Slovenian D96/TM coordinates (EPSG:3794) to WGS84 for map display.
- **PDF generation.** Contracts via reportlab, invoices carrying UPN QR codes, prospectuses and interest reports, plus public token-based digital signing that records IP and timestamp.
- **Stripe billing.** Four subscription tiers with idempotent webhook processing keyed on event ID, and a stored failed-event table with admin replay.

Other live work

- [jakamencinger.dev](#) — portfolio built in Next.js and Tailwind, linking five live projects.
- [potepuh-trgovine.si](#) — a running Shopify store: catalogue, collections, cart and checkout.

TECHNICAL SKILLS

Languages TypeScript, JavaScript, Python, SQL, HTML5, CSS3

Frontend React, Next.js, Tailwind CSS, shadcn/ui, SWR, responsive and mobile-first design, PWA / service workers

Backend FastAPI, Node.js, Next.js route handlers, REST API design, zod / pydantic validation, Prisma, SQLAlchemy, Alembic, better-auth

Data PostgreSQL — schema design, composite indexing, migrations, backups; SQLite; IndexedDB

AI integration Anthropic API, structured outputs with schema validation, document and image OCR, few-shot generation, hallucination guards, cost and quota control

Infrastructure Docker, Linux/Ubuntu deployment, Cloudflare (Tunnel, R2), Railway, GitHub Actions, cron scheduling, nightly backups

Testing Vitest, Playwright, integration testing against real PostgreSQL, e2e on mobile device profiles

Also Stripe, Shopify, Payload CMS, Git / GitHub

Coursework only C# / .NET — strongest language from my studies, but no production code in any repository

EDUCATION

Engineer of Informatics — Higher Vocational Diploma (EQF 6)

Kranj, Slovenia

Višja strokovna šola Kranj — Informatics

LANGUAGES

- Slovenian — native · English — B2 · Serbo-Croatian — basic