

YAVUZ SELİM CANPOLAT

Backend-Focused Software Developer

Ankara, Türkiye • +90 551 831 04 19 • yavuz.canpolat248@hotmail.com • [linkedin.com/in/yavuz-selim-canpolat](https://www.linkedin.com/in/yavuz-selim-canpolat) • github.com/yavuzscnplt

SUMMARY

Backend-focused software developer and Computer Engineering graduate. Independently designed and built six self-directed software projects — spanning a multi-tenant SaaS POS, a B2B e-commerce/ERP platform, a demo-site automation pipeline, a profession-based note-taking platform, an AI-orchestrated security scanner, and an in-browser PBR material generation studio — using Laravel, modern PHP, TypeScript/NestJS, Python, React, and Node.js. Strong in clean modular architecture, relational data modeling, financial-grade precision, full-text search, and Docker-based deployment. Seeking a backend / full-stack role where I can ship reliable, well-architected systems.

TECHNICAL SKILLS

Languages: PHP, TypeScript/JavaScript, Python, SQL, C# (intermediate), C++ (basics)

Frameworks: Laravel, Livewire, NestJS, React, Node.js, Tailwind CSS, Three.js, Tiptap

Data & Infra: MySQL, PostgreSQL, Redis, Meilisearch, Prisma, Docker, Git, REST APIs, Nginx

AI / Tooling: Anthropic Claude API, Gemini API, Zod, JWT auth, CI/CD (GitHub Actions)

FEATURED PROJECTS

Automotive Parts B2B — E-Commerce & ERP Platform *Laravel 11 · Livewire 4 · Meilisearch · Redis*

- Built a B2B parts platform with a bcmath-precision pricing engine (customer-specific → group → list price hierarchy with stacked group/campaign/volume discounts).
- Implemented credit-limit / risk-exposure control, multi-warehouse stock, and a modular (DDD-inspired) architecture with 20+ isolated domain modules.
- Sub-50ms full-text part search with Meilisearch (typo tolerance, highlighting, faceted filters); background jobs via Laravel Horizon; real-time updates via WebSockets.

github.com/yavuzscnplt/automotive-parts-b2b

Multi-Tenant Restaurant POS & Self-Service QR Ordering *Laravel · Livewire · MySQL · Docker*

- Multi-tenant, franchise-ready POS with row-level tenant isolation (global query scopes) so one branch's data can never leak into another.
- Solved real concurrency problems (race-condition-safe order numbering with row locks) and centralized money logic protected by unit tests.
- Self-service QR ordering with real-time order flow to the cashier and kitchen display; packaged with Docker.

github.com/yavuzscnplt/multitenant-pos

Restaurant Demo-Site Factory — Automation Pipeline *Node.js · Gemini API · Vercel API*

- End-to-end pipeline that auto-generates personalized marketing websites for businesses: scrape → AI content (Gemini) → cuisine-based template → image sourcing → deploy.
- Engineered for resilience: multi-source fallback chains (content models & image providers) so no single external service can stall an unattended batch run.

github.com/yavuzscnplt/restaurant-site-generator

CanVault — Profession-Based Note-Taking Platform *TypeScript · React 19 · NestJS · Prisma · PostgreSQL*

- Notion-style block editor (Tiptap) with lossless JSON content, a schema-first data model using Zod discriminated unions with types derived via `z.infer` (single source of truth, no drift).
- Platform-agnostic core package (no JSX/Tailwind) driving a per-profession theming system via semantic tokens, resolved to concrete Tailwind classes in a separate UI layer.
- Local-first architecture (IndexedDB) behind a swappable repository boundary designed for a future CRDT sync layer, with versioned schema migrations that backfill existing user data safely.
- Secure JWT auth (bcrypt hashing, enumeration-safe error messages) and a single Zod-validation contract shared end-to-end between the NestJS API and React frontend.

github.com/yavuzscnplt/canvault-notes-platform

VulnPilot — AI-Orchestrated Web Application Security Scanner *Python · Claude API · nuclei · subfinder*

- Claude-powered orchestrator that plans a security scan, drives external tools (nuclei, subfinder) plus built-in HTTP/TLS probes, then triages findings into JSON, Markdown, and self-contained HTML reports.
- Plugin-based tool architecture (new scanner = one file via a Tool base class + @register decorator) with graceful degradation: falls back to a deterministic heuristic mode when no API key is present.
- Built an authorization-first design (explicit scope/consent gate before any traffic is sent) and shipped with CI (GitHub Actions), tests, and packaging (pyproject.toml).

github.com/yavuzscnplt/vulnpilot

MatForge AI — In-Browser PBR Material Generation Studio *React · Three.js · Imagen / Stability API · Canvas*

- AI texture studio that turns a text prompt into a tileable material, then derives the full PBR channel set (Normal, Roughness, Metallic, AO, Height) client-side from a single albedo via luminance and Sobel-based gradient processing on canvas.
- Real-time 3D preview with Three.js (MeshStandardMaterial on sphere/cube/plane, orbit controls, configurable lighting/environment) and live material parameters — roughness, metalness, normal intensity, tiling, displacement.
- Engine-targeted export as ZIP for Unreal Engine 5 (packed ORM), Unity URP/HDRP, Blender, and standard PBR, plus a pluggable image-provider layer (Google Imagen / Stability AI) with proxy fallback.

EXPERIENCE

Frontend Developer Intern — Devi Yazılım *Jul 2024 – Oct 2024 · Ankara*

- Contributed to a large-scale automotive marketplace platform — worked on system stabilization, in-app UI design (React), and backend development (Laravel).
- Investigated and resolved bugs/errors and ran a variety of tests across the application. Prepared and updated site content built on current web technologies.

Junior UI Developer — EbruSoft Software Electronics Ltd. *Feb 2021 – Apr 2021 · Ankara*

- Built and maintained company websites with HTML5/CSS and added product datasheets.
- Handled on-page/off-page SEO and Google Ads optimization; managed the company's social media presence.

EDUCATION

B.Sc. in Computer Engineering — Kırıkkale University *2019 – 2026 · Türkiye*

LEADERSHIP & ACTIVITIES

- Founder & President — Sci-Fi & Fantasy Community (BKFT), Kırıkkale University: led a 500+ member community; organized large-scale events and delivered public speeches.
- Erasmus+ Programme — Participant: represented Türkiye in an international project (5 countries); cross-cultural teamwork.

CORE COMPETENCIES

- Multi-tenant SaaS architecture
- Modular / Domain-Driven design
- Financial-precision pricing & discount engines (bcmath)
- Full-text search integration (Meilisearch)
- Queues, background jobs & real-time (WebSockets)
- Relational database design & query optimization
- REST & third-party API integration (AI, deploy)
- Docker packaging & deployment, unit testing
- AI-orchestrated tooling (Claude/Gemini API integration)
- Schema-first design (Zod / Prisma), local-first data

LANGUAGES

Turkish — Native **English** — B2 (Professional Working)