

Petromil "Petro" Pavlov

Senior Full-Stack & AI Engineer

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SUMMARY

10+ years shipping production software — currently focused on AI products end-to-end. Most recently on CData Virtuality's AI research team, where I solo-built a Cursor-style SQL AI copilot inside the platform (Q3 2025 release, demoed at Gartner D&A Summit 2025). Previously at VMware, TestGorilla, Walltopia, and Octopus Energy Germany. Comfortable from prompt design through production billing, identity, and integrations. Available for consulting and project work — primarily US (NYC · SF · Boston), Canada (Toronto · Montreal · Vancouver), and Israel (Tel Aviv); also open to EU / UK clients where the project fits. Tel Aviv shares my timezone; afternoons overlap with North-American East-Coast mornings; late-day sync for Pacific time. Invoiced in USD, CAD, or EUR via Stripe and Wise.

EXPERIENCE

VMware · Senior Frontend Engineer · Workspace ONE

returned as senior

Returned to VMware as senior after starting as MTS Trainee out of Telerik Academy — shipped vRealize Automation health monitoring + auto-repair, presented to leadership.

- Built a new Workspace ONE application from scratch — planning, design, CI/CD, deployment automation
- Introduced NGRX state-management patterns adopted across the team
- Led the AngularJS ' Angular 8 migration of legacy features

Stack: Angular 8+ · NGRX · Clarity · WebComponents · NX · Jest · Codecept

Data Virtuality · now CData · Senior Engineer · AI Research Team

AI research team

Joined Data Virtuality, an enterprise data-virtualization platform with 200+ connectors used by BSH, Crédit Agricole, and NYU. Stayed through the April 2024 acquisition by CData and the rebrand to CData Virtuality. Worked inside the AI research team on the next generation of AI features for the platform.

- Solo-built a Cursor-style SQL AI copilot inside the Data Virtuality Platform — natural-language SQL authoring, edits, and exploration over federated data sources
- Co-built "Talk to your Data" with one other engineer — natural-language ' governed SQL combining LLM + semantic vector DB + the platform's Virtual SQL engine
- Both features shipped in the Q3 2025 platform release; CData demoed the platform at Gartner D&A Summit 2025

Stack: OpenAI · RAG · Semantic Layer · Virtual SQL · TypeScript · Java

TestGorilla · Senior Frontend Engineer

Psychometric assessment platform helping companies hire fairly. Owned features end-to-end across the micro-frontend boundary.

- Designed and shipped micro-frontend architecture using Module Federation
- Established NGRX Store + Component Store patterns across the app
- Built internal AI tooling for meeting analysis using ChatGPT and Claude APIs

Stack: Angular 17 · React · Module Federation · NGRX · TypeScript · Sentry

Walltopia · React Native + Full-Stack · interactive climbing walls

Walltopia builds the climbing walls used at most major gyms worldwide. The e-walls system turns a static wall into an interactive surface — every hold is a smart RGB LED diode.

- Built the React Native (Expo) mobile app — route creation, multi-board picker, offline mutation queue
- Designed the NestJS + Socket.IO backend for real-time multiplayer route activation
- Wired BLE communication and a MODBUS RTU protocol bridge to the wall hardware
- Authored a .NET 8 board simulator so the team could test 15x15 boards without physical hardware

Stack: React Native · Expo · NestJS · TypeORM · PostgreSQL · Socket.IO · BLE · MODBUS · .NET 8

Octopus Energy Germany · Full-Stack Engineer · joined as 4hundred, stayed through the Octopus rebrand

Munich-based green-energy retailer — joined when it was 4hundred GmbH (founded 2017), stayed through the September 2019 acquisition by Octopus Energy and rebrand to Octopus Energy Germany.

- Built billing, invoice generation, and customer change-tracking systems
- Optimised hot API endpoints to handle 40,000+ users with substantially better latency
- Worked across the Angular front end and the ASP.NET / Entity Framework back end

Stack: Angular 8+ · C# · ASP.NET · Entity Framework · Azure · Docker · PostgreSQL · MSSQL

SELECTED PROJECTS

Insight Draft · Production AI SaaS for meetings

Insight Draft turns meeting recordings into searchable team knowledge — instant summaries, action items, and a Q&A assistant grounded in the transcript with verifiable citations. The Chrome extension (Manifest V3, 2 years' work, published on the Chrome Web Store) records Google Meet, Microsoft Teams, and Zoom without bots joining the call — uses tabCapture for browser-based meetings and desktopCapture for desktop clients, plus manual recording.

Stack: Chrome Extension MV3 · tabCapture · desktopCapture · .NET 8 · Node.js · Angular 17 · OpenAI Responses API · Deepgram · app.insightdraft.com · Chrome Web Store

Gramota · EU Digital Identity Wallet SDK · eIDAS 2

A multi-package SDK and SaaS layer for the EU Digital Identity Wallet. Implements OID4VP Final 1.0, OID4VCI Draft 15, DPoP, DCQL, and X.509 per-organisation certificate management.

Stack: TypeScript · ASP.NET Core 10 · Duende IdentityServer · Angular · Analog.js · OID4VP/VCI · PostgreSQL · gramota.eu

SKILLS

Frontend	Angular 8–18, React, Next.js, TypeScript, RxJS, Signals, NGRX, Module Federation, Tailwind, GraphQL
Backend	.NET / C#, ASP.NET, Entity Framework, Node.js, NestJS, Express
AI / ML	Anthropic SDK, OpenAI SDK, RAG, Fine-tuning, Whisper, ElevenLabs, NL'SQL, Evals
Identity & Payments	Duende IdentityServer, OAuth 2.0 / OIDC, OID4VP / OID4VCI, eIDAS 2, Stripe, X.509 PKI
Cloud	AWS (S3, CloudWatch), Azure DevOps, Docker, Jenkins, CI/CD
Mobile	React Native, Expo, BLE protocols
Browser Extensions	Manifest V3, Service workers, Content scripts (MAIN world), tabCapture / desktopCapture, external-ly_connectable, Chrome Web Store
Data	PostgreSQL, MSSQL, Redis

EDUCATION & CERTIFICATIONS

- Technical University of Sofia · BSc Industrial Engineering
- Telerik Academy · Software Engineering
- Scrum Alliance · Certified Scrum Master (Dec 2023)