DENIS PAVLOV

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SUMMARY

An innovative Full-Stack Software Engineer and Technical Leader with over a decade of experience designing, architecting, and scaling enterprise applications. Proven track record of taking full ownership of complex projects across the software development lifecycle—from initial requirements gathering with business stakeholders to final deployment. Skilled at bridging business needs with engineering execution to deliver high-performance data pipelines, workflow automations, and tools that drive operational efficiency.

TECHNICAL SKILLS

Languages & Frameworks: .NET, C#, CSS, HTML/JavaScript, Java, Node.js, React
Architecture & Integrations: API Integrations, Microservices, OAuth 2.0, REST
Infrastructure & Data: AWS (EC2, ECS, Fargate), CI/CD, Docker, EF Core, Git, MySQL, SQL Server

EXPERIENCE

SENSOR TOWER, Los Angeles, California
Senior Full Stack Developer, 2024-Present

Design and implement complex systems processing vast amounts of data across the full-stack software development lifecycle. Train and mentor new engineering hires and participate in the hiring process, having conducted over a dozen system design interviews. Contribute to Agile team initiatives including server configurations, CI/CD pipelines, framework upgrades, and general cloud infrastructure initiatives.

- Spearheaded the redesign and rewrite of a high-volume data feed engine delivering 65+ daily feeds (ranging from a few MB to hundreds of GB each) using C#/.NET9 and DuckDB deployed to an AWS Fargate serverless environment.
- Partnered directly with internal business stakeholders to design and implement a self-serve internal management tool for data feed configuration using C#/.NET9, ASP.NET MVC, HTML/JavaScript, and SQL Server to empower non-developer users.
- Took ownership of an internal Node.js and Express API service utilized for ad and creative tooling, leveraging Puppeteer to automate headless browser workflows and reliably capture on-demand website screenshots.
- Developed workflow automations using Hangfire for scheduled task processing, pairing it with the OpenAI API to automate image recognition tasks and save thousands of dollars in monthly contractor fees.
- Upgraded AWS SDKs across all stack services and executed a migration of all projects from .NET6 to .NET9, managing complex interdependencies, creating new AMIs/EC2 instances, and rebuilding CI/CD pipelines.
- Received the 2024 Inventor of the Year Award for rebuilding the core data feed engine and associated internal management and monitoring suite.

MAXOR, Los Angeles, California
Senior Back-End Architect, 2022-2024

Developed, implemented, and maintained scalable application software, focusing on system security, rapid prototyping, and identity management.

- Conducted application-wide security audits to identify system vulnerabilities, prototyping proof-of-concept fixes and delivering balanced remediation solutions.
- Utilized OAuth 2.0 Refresh Token logic per RFC 6749 Section 1.5 to correctly exchange refresh tokens for new JSON Web Tokens when previous JWTs expired.
- Implemented authentication logic at the microservice level to eliminate gateway dependencies and protect exposed services.
- Enforced role- and claim-based access controls at the microservice level to prevent unauthorized users from accessing restricted resources and endpoints.
- Fixed 2FA logic to prevent compromised credentials from being exploited without secondary email verification.
- Deprecated legacy authentication mechanisms that exposed sensitive data, aligning application architecture with modern web security best practices.
- Created a unified local development environment utilizing GitHub submodules and Docker dev containers to run databases, microservices, gateway, and the UI simultaneously.
- Authored comprehensive developer onboarding documentation detailing environment setup steps and standard workflows to streamline team ramp-up.

STEADY, Los Angeles, California
Principal Software Engineer, Technical Team Lead, 2019-2022

Collaborated across all phases of the software development lifecycle with a cross-functional Agile team. Partnered with product, engineering, and UX stakeholders to define, design, scope, and ship full-stack features.

- Owned the end-to-end delivery of a v1 automated payment system for ACH transfers and electronic gift cards, building C# microservices with ASP.NET Core, EF Core, MySQL, and Kafka.
- Managed the design and implementation of a subscription management system for in-app purchases across Apple and Google platforms, working closely with front-end engineers to deliver a seamless UI experience.
- Integrated third-party services into core application workflows, including leading the rollout of a v1 phone-number verification service powered by Twilio.
- Maintained continuous design and implementation of high-throughput RESTful APIs handling an average of 300 requests per minute across Steady's ecosystem.
- Led a DevOps initiative to integrate New Relic APM instrumentation across all microservices for proactive production monitoring and faster incident resolution.

DIAL800, Los Angeles, California
Software Development Manager, Software Developer, 2013-2019

Contributed to the enhancement and maintenance of core software products while leading DevOps initiatives, participating in product design, and implementing internal and external APIs.

- Designed and implemented the Dynamic Number Insertion (DNI) feature that dynamically injected unique phone numbers based on visitor attributes and configured routing accordingly in real time using C#/.NET Framework and HTML/JavaScript.
- Developed geographic call routing functionality to direct incoming calls based on caller physical location using C#/.NET Framework and React.
- Created an automated spam shield routing feature to identify robo-calls, significantly reducing unnecessary usage fees for clients using C#/.NET Framework and React.
- Created in-progress call reporting features, enabling real-time analytics dashboards in client portals for data-driven decision-making using CCXML, C#/.NET Framework with SQL Server and HTML/JavaScript.
- Architected and deployed 30+ internal and external API endpoints leveraging C#/.NET Framework, SQL Server, and MVC architecture with ASP.NET Web API.

FACTUAL, Los Angeles, California
.NET Consultant, Engineer, 2013-2014

Contributed to the development and maintenance of the open-source Factual API C# Driver, utilizing GitHub for source control, issue tracking, technical documentation, and supporting the external developer community.

- Designed and implemented five major driver features to support new API functionality.
- Reworked raw GET and POST driver mechanisms to ensure strict adherence to API specification requirements.
- Maintained and updated driver documentation on the GitHub Wiki, using Markdown for consistency with broader API developer resources.

EDUCATION

CALIFORNIA STATE UNIVERSITY, Northridge, California
MBA, Management

CALIFORNIA STATE UNIVERSITY, Northridge, California
BS, Information Systems

SPOKEN LANGUAGES

English, Russian, Ukrainian