

DENIS PAVLOV

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SUMMARY

A detail-oriented and innovative software engineering leader, with a long history of success overseeing technical projects. An enthusiastic problem-solver, who leverages technical expertise to develop applications, software, and features that enhance the client experience. A dedicated team leader, well-versed in all phases of the software development life cycle.

**Software Engineering | Project Management | Strategic Planning | Documentation | Authentication | Security | Auditing
Agile Methodology | Development Best Practices | Optimization | Automation | Back-End Architecture**

EXPERIENCE

SENSOR TOWER, Los Angeles, California

Senior Full Stack Developer, 2024-Present

Design and implement complex systems processing vast amount of data. Develop and maintain one of the most visible and profitable products in the company. Participate in the hiring process, specifically having conducted over a dozen system design interviews. Train and mentor new engineering hires, anything from environment setup to co-designing new features. Occasionally participate in standing up servers, building CI/CD pipelines, spearheading framework upgrades, and other DevOps initiatives.

- Redesigned and rewrote data feed engine responsible for delivering on average 45 feeds per day ranging from a few MB to hundreds of GB per feed written in C# using .NET9 deployed to AWS Fargate serverless environment running in Amazon ECS.
- Modeled, designed and implemented new data feed configuration internal management tool written in C# using ASP.NET MVC with HTML, JavaScript and SQL Server database to create a self-serve solution usable by non-developers.
- Implemented daily cron job in C# using .NET9, Hangfire library, and OpenAI API that replaced a manual human task of identifying products from images, saving the company thousands of dollars in monthly contractor fees.
- Migrated every single project from .NET6 to .NET9 requiring creation on new AMIs, launching new AWS EC2 instances, rebuilding existing CI pipelines, managing complex project interdependencies, and a phased rollout over several days.
- Upgraded all AWS SDKs to latest patch versions used by virtually every service in our stack, while hunting down and fixing a number of critical bugs within our internal packages that wrap AWS services, and adding comprehensive unit tests.
- Received one of the kind Inventor of the Year 2024 Award from my company for rebuilding and maintaining data feed engine and associated web-based application for internal management and monitoring.

MAXOR, Los Angeles, California

Senior Back-End Architect, 2022-2024

Developed, implemented, and maintained application software to established standards and specifications.

- Conducted a comprehensive application-wide security audit to identify vulnerabilities, carefully documented all findings, and proposed multiple solutions that analyzed the pros and cons of each implementation.
- Utilized OAuth 2.0 Refresh Token logic per RFC 6749 Section 1.5 to correctly exchange refresh token for new JSON Web Token when previous JWT expired.
- Implemented authentication logic at the microservice level to eliminate the need for a gateway, effectively protecting microservices that would otherwise be exposed.
- Executed authorization logic at the microservice level, utilizing roles and claims to effectively prevent unauthorized access by users to forbidden resources.
- Fixed 2FA logic to prevent compromised credentials from being potentially used by bad actors to gain access to sensitive user data without access to that user's email box.
- Deprecated incorrectly implemented authentication logic that included sensitive data encoded into refresh tokens that went against best practices for web application security.
- Created a single GitHub repository, utilizing Git Submodules to leverage Docker dev containers for the ability to run database, microservices, gateway, and UI simultaneously in a local environment.
- Developed an onboarding document for new developers to thoroughly explain every step for setting up a new local development environment, listing frequently used resources, and ensuring consistent practices.

STEADY, Los Angeles, California

Principal Software Engineer, Technical Team Lead, 2019-2022

Collaborated across all phases of the software development life cycle with a cross-functional Agile development team. Partnered with product, engineering, and design and UX stakeholders, as well as the team, to help define, design, scope, implement, and ship features and projects. Addressed service concerns to deliver business value to users. Helped architect, implement, test, and optimize scalable, distributed systems across Steady's ecosystem. Delivered high-quality, well-tested technical solutions that made sense for the problem at hand. Helped define, implement, and reinforce development best practices and processes. Contributed to Steady's technical vision.

- Led a project to design and implement v1 of an automated back-end payment system for ACH bank transfers and electronic gift cards, consisting of microservices written in C# with ASP.NET Core, using EF Core, Kafka, and MySQL, while working hands-on with another back-end engineer, product manager, and quality assurance.
- Managed a project to design and implement v1 of subscription management system for managing in-app purchases integrated with Apple and Google written in C# with ASP.NET Core, using EF Core and MySQL, while working hands-on with the front-end engineer, product manager, and quality assurance.
- Oversaw project to design and implement v1 of a phone-number verification service, integrated with Twilio and written in C# with ASP.NET Core, using EF Core and MySQL, while working hands-on with the front-end engineer, product manager, and quality assurance.
- Led a project to add New Relic's APM instrumentation to all back-end microservices for quicker identification and resolution of development and production issues, while working with DevOps and all back-end engineers.
- Owned continuous design and implementation of RESTful API, handling an average of 300 requests per minute written in C# with ASP.NET Core, using EF Core and MySQL, while leading a cross-functional team.

DIAL800, Los Angeles, California

Software Development Manager, Software Developer, 2013-2019

Contributed to enhancement and maintenance of the company's software products. Participated in the design and development of new products. Implemented internal and external APIs. Led a DevOps team effort.

- Designed and implemented the Dynamic Number Insertion (DNI) feature that dynamically showed a phone number on a web page, which was unique to that visitor.
- Developed and deployed location geographic routing feature that allowed a call to be routed, based on the caller's physical location.
- Created and implemented a spam shield routing feature that allowed users to identify robo-dialed and spam calls, saving the client from paying unnecessary usage fees and human resources.
- Designed and implemented an in-progress call reporting feature that allowed clients to see calls right as they were initiated in their call tracking portal, enabling them to make more informed business decisions based on data.
- Created and deployed 30-plus internal and external APIs, using MVC architecture with ASP.NET Web API 2.2 library, including controllers, services, repositories, and stored procedures.

ADDITIONAL EXPERIENCE

FACTURAL, Los Angeles, California, **.NET Consultant, Engineer, 2013-2014**. Contributed to the development of the Factual API C# Driver, using a GitHub source control and tracking system by implementing new features, maintaining accurate documentation, and supporting existing users.

EDUCATION

CALIFORNIA STATE UNIVERSITY, Northridge, California
MBA, Management

CALIFORNIA STATE UNIVERSITY, Northridge, California
BS, Information Systems

TECHNICAL SKILLS

.NET, AWS, C#, EF, Git, and SQL