

# 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

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

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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. Designed and implemented five major driver features to support new API functionality. Reworked raw GET and POST driver features entirely for absolute adherence to the specification document. Updated driver documentation on GitHub Wiki, using Markdown for consistency with API documentation.

SKY REMODELING, Glendale, California, **Information Technology Director, 2012-2013**. Supported a call center's IT infrastructure by maintaining six servers and 100-plus workstations to achieve highest performance, maximum security, and minimum downtime. Reduced IT costs by \$3K per month. Designed and implemented new, highly scalable network infrastructure to house 30-plus additional agents.

PANACHE, Encino, California, **Quality Assurance Engineer, 2010**. Supported online media software products, using the Gemini issue tracking system by creating test plans, performing black and white box testing, training new QA engineers, and participating in the architecture process of new features. Designed and implemented internal Wiki. Executed companywide conversion to Microsoft Exchange.

SAP LABS, Los Angeles, California, **Quality Assurance Engineer, Information Technology Engineer, 2008-2009**. Supported a team of developers by performing black box testing on SAP MDM 5.5 / 7.2 software, scrubbing internal bug tracking system, resolving all IT issues while minimizing downtime, and maintaining internal Wiki. Developed a set of new procedures for maintaining an internal bug tracking system and reporting new issues. Significantly improved disaster recovery time with the creation of a developer workstation master image.

Greenbear Technologies, Burbank, California, **Information Technology Engineer, 2006-2008**. Assembled, configured, and troubleshot Windows, Mac, Linux and UNIX systems in the lab and onsite while working directly with clients. Increased revenue by introducing over 12 new clients while demonstrating a wide range of company's services and ensuring customer satisfaction. Established new services offered by the company, including network infrastructure design (Windows, Mac, Linux, and UNIX integration), network configuration, and remote support. Participated in cataloging and reorganizing an entire warehouse of computer hardware.

## EDUCATION

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CALIFORNIA STATE UNIVERSITY, Northridge, California  
**MBA, Management**

CALIFORNIA STATE UNIVERSITY, Northridge, California  
**BS, Information Systems**

## TECHNICAL SKILLS

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.NET, C#, EF Core, Git, Kafka, and SQL