

LEE M. TUCKER

Senior Full-Stack Software Developer | Consultant | Architect
(916) 941-5740 | lee@prog-tech.com | www.prog-tech.com | Houston, TX

PROFESSIONAL SUMMARY

Versatile, full-stack software developer and architect with over 30 years of professional experience delivering technical solutions across web, desktop, mobile, and IoT platforms. Proven track record of leading development efforts for government agencies, financial institutions, telecommunications, and commercial clients. Skilled in modern .NET/C# ecosystems including Blazor and WebAssembly, relational and NoSQL databases, and cloud-native architectures. Increasingly focused on integrating AI and large language model (LLM) technologies—including prompt engineering, AI-assisted development workflows, and intelligent automation—into modern application development. Business-results oriented, self-motivated, and a strong mentor and team contributor.

CORE COMPETENCIES

- Full-Stack Web Application Development
- AI/LLM Integration & Prompt Engineering
- Cloud & DevOps (Azure, AWS, Docker, CI/CD)
- .NET/C#, ASP.NET Core, Web API
- Blazor, WebAssembly, Angular, React, Node.js
- SQL Server, PostgreSQL, NoSQL, ETL
- UX-Driven Design & Interface Development
- Technical Leadership & Mentoring

PROFESSIONAL EXPERIENCE

Senior Software Developer / Consultant 2016 – Present

Progressive Technical Consulting, LLC (Self-Employed) – Houston, TX

Independent consultant providing ongoing application development, maintenance, and modernization services for multiple concurrent clients across government, public sector, and private ventures.

First5 Alameda County 2016 – Present

- Maintained and enhanced three legacy ASP.NET Web Forms applications—Pathways, ECChange, and ECCOnline—serving as case and referral management systems for county and state agencies, including the California Department of Public Health.
- Built and integrated Web APIs and batch processing functionality across all three applications, with SQL Server database backends and SSRS reporting.
- Automated medical billing workflows by implementing X12 EDI 837P report generation and electronic submission to clearinghouses for reimbursement and payment processing.
- Managed application infrastructure hosted on AWS, utilizing S3 and Lambda for serverless hosting and deployment.

CalHFA (California Housing Finance Agency) 2016 – Present

- Long-standing client relationship dating back to 2009. Architected and developed LSSCore, a full-scale rewrite of CalHFA's legacy Loan Servicing System, using Clean Architecture with .NET 8, ASP.NET Core Razor Pages, and Entity Framework Core against SQL Server.
- Designed a solution managing the full loan lifecycle: inquiry, payment processing, payoff/refund workflows, foreclosure tracking, reconveyance, and MERS integration.
- Built complex financial workflows including batch payment entry with control-total validation, check generation and approval pipelines, and automated reconveyance document processing.

- Implemented role-based security with folder-level authorization, CSRF protection, and Windows Authentication (Negotiate) for internal agency users.
- Established CI/CD pipelines via Azure DevOps (azure-pipelines.yml) for automated build, test, and deployment. Authored comprehensive xUnit/Moq test suites.
- Leveraged AI-assisted development (Claude) for code review, architectural analysis, and systematic identification of security vulnerabilities and performance improvements across the 400+ file codebase.

Technologies: .NET 8, ASP.NET Core Razor Pages, ASP.NET MVC, ASP.NET Web Forms, Entity Framework / EF Core 8, AngularJS, Angular 2+, SQL Server, SSRS, Kendo UI, Bootstrap, AutoMapper, Web API, AWS (S3, Lambda), X12 EDI 837P, xUnit, Moq, Azure DevOps CI/CD, AI-assisted development (Claude)

PRIOR EXPERIENCE

Senior Software Developer – Ocwen, Inc. / Liberty Home Equity Solutions, Inc. 2015 – 2016

Technical lead for web portals and loan origination platforms. Migrated development from a custom JavaScript framework to AngularJS. Implemented the Homeward Lending Portal as an SPA with authentication, i18n, and complex workflow modules.

Senior Software Developer / Consultant – Last Stand Tactical, Inc. 2014 – 2015

Sole IT resource for all development, hardware/network support, and PCI-DSS compliance. Replaced legacy WPF/WCF POS system with a custom AngularJS/Web API solution with multi-store and payment API integration. Built IoT digital signage using Arduino, Linux, and the MEAN stack.

Senior Software Engineer / Consultant – Consolidated Communications / SureWest Communications 2010 – 2014

Designed and developed multiple customer-facing and internal applications including VoIP account management, IPTV REST APIs, email marketing platforms, and Salesforce lead-referral integration. Primary web-portal application used daily by call center staff.

EARLIER CAREER

Software Consultant / Owner – Progressive Technical Consulting, LLC 2009 – 2010

Custom software development for multiple Sacramento-area clients including CalHFA (loan servicing system conversion), CalPASS (web application maintenance), and ARIES (federal HIPAA-compliant patient tracking system).

Software Engineer Level IV – DirectApps / DirectTechnology, Inc. 2008

Lead developer and architect for large-scale web portal solutions for telecommunications clients. Implemented single sign-on, billing interfaces, and service-oriented web services.

Senior Software Engineer – Infor Global Solutions, Inc. 2008

Application developer for Hansen8 ERP public-sector product. Prototyped a modernized configuration transfer tool and created custom NSIS installation scripts.

Senior Developer – Competent Technologies, Inc. 2006 – 2007

Enhanced Encompass commercial software suite across web, Windows, Tablet PC, and Windows Mobile platforms. Created image-capture/ink-markup controls and a custom Windows Mobile remote updater.

Senior Developer / Consultant – CA Dept. of Corrections and Rehabilitation (via Eclipse Solutions) 2006 – 2010

Designed ASP.NET applications replacing legacy systems, including Active Directory account management and parolee case-tracking (PALRTS.NET). Mentored junior staff.

Technical Oversight Lead / Consultant – Employment Development Department (via Estrada Consulting / Eclipse Solutions) 2005 – 2006

IV&V; technical oversight for California Paid Family Leave and other state projects. Performed code reviews, architect interviews, and risk assessments.

Systems Architect / Consultant – CA State Teachers' Retirement System (via Forward Solutions) 2003 – 2005

Technical lead for the award-winning 403bCompare.com project (2005 NAGDCA Leadership Recognition Award). Redesigned troubled n-tier ASP.NET application. Delivered Proxy Vote application early and under budget.

Senior Developer / Consultant – Intel Corporation (via eTech Solutions) 2002 – 2003

Developed enterprise asset-management applications (ADP2, DVLM/GPCA) consolidating legacy systems. Delivered projects on time, under budget, and bug-free.

Senior Developer – Musician.com 2000 – 2001

Designed and deployed solutions for Musician.com, Guitar.com, and Gbase.com. Redesigned Gbase.com from scratch, growing revenue to ~\$50k/month.

Web Application Developer, Sr. – Intel Corporation 1995 – 2001

Designed and deployed enterprise solutions for Intel's Global Operations Center. Received Division Recognition Award (DRA) and multiple Employee Recognition Awards. Key resource in Banyan Vines to Windows NT migration.

CERTIFICATIONS

Microsoft Certified Solutions Developer (MCSD)

References and project details available upon request.