

Aaron Newcomer
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(805) 215-2936 • Overland Park, KS

Technical Skills

- **Experience** 15+ years, full-stack web applications, data platforms, SaaS, PaaS
- **AI** Generative AI, AWS Bedrock, Anthropic, ChatGPT, Prompt engineering
- **Web** React, Redux, Webpack, jQuery, LESS, SASS, ASP.NET Core MVC, WebForms, Razor, GA, SEO
- **Applications** .NET, ASP.NET Core, C#, Node.js, REST, GraphQL, RQL, SOAP, WCF
- **Data** SQL Server, PostgreSQL, NoSQL, ADO.NET, Dapper, OData
- **Builds** GitHub Actions, Docker, Jenkins, Octopus Deploy, bash, PowerShell, Terraform, Vault
- **Quality** Xunit, NUnit, Moq/Nsub, Selenium, Playwright, Storybook, Jest, New Relic, Splunk
- **Design** SOLID, Head First, iDesign, async/promises, concurrency, scalable solutions
- **AWS** EC2, ECS, EKS, API Gateway, EventBridge, RDS, S3, SQS, SNS, DynamoDB, Lambda, Redis
- **Hosting** Containers, Serverless, Kubernetes, CDN platforms, Cloudflare, Windows Server, IIS
- **Tools** VS Code, Visual Studio, JetBrains, Docker, git, GitHub Co-pilot
- **Industries** IT consulting, CRM, CMS, sales, logistics, simulation, aerospace, systems engineering

Professional Experience

Cox Automotive Mission, Kansas

Principal Software Developer September 2015 / present

Provided development services as a direct contributor of the software engineering leadership team.

- Applied principles of service-oriented architecture to achieve highly performant application results for CRM and SaaS systems supporting thousands of concurrent users.
- Led several cross-team initiatives and projects across multiple product domains:
 - Customer-facing generative AI integrations (incl. telemetry and cost tracking reports)
 - Nationwide CRM customer master data record platform
 - ETL processes and webhooks for customer marketing segmentation store and workflow engine including integrations with AI/ML vendor partners
 - Communication consent & compliance engine for email, phone, SMS/MMS
 - Communication history aggregation system for multiple channels and business units
 - Event notification platform for change data capture and business events
- Established reference documentation repositories for engineering patterns and practices, infrastructure as code, shared GitHub actions and workflows, development tooling and libraries
- Mentored junior, mid & senior developers as well as led communities of action on topics such as practical application design patterns and refactoring strategies.

Strategic Evolution Overland Park, Kansas

Principal Software Developer August 2010 / September 2015

Provided consulting services as the lead systems architect for a variety of projects, clients, & industries.

- Architected an enterprise-level facility management system in C#, EF & ASP.NET MVC.
- Designed an online construction "punchlist" tool with a companion mobile application capable of offline sync using PhoneGap & AngularJS.
- Created an HTML5 information kiosk application supporting i18n & l10n with data sourced from a custom Drupal CMS for content administration.
- Constructed an SEO-optimized marketing site for a parcel auditing company with Highcharts & DataTables.
- Wrote a mobile application to track and administer cattle grazing patterns using ASP.NET OData and including Google Maps integration.
- Established internal source control and documentation policies with SVN, GitHub & Slack.
- Provided installation, support & content for multiple WordPress sites.

MIQ Logistics Overland Park, Kansas

Software Developer June 2009 / September 2010

Provided support for an LTL freight logistics company as a member of the IT department's .NET development team.

- Supported enterprise-wide applications written in C#, VB, T-SQL, ASP.NET WebForms & MVC.
- Maintained and enhanced data system integrations with SQL Server, Oracle, XML/XSLT, JSON.
- Debugged and repaired enterprise support and reporting applications in Excel, Access, SAP.
- Upgraded and consolidated multiple aging legacy applications to modern technology stacks.
- Designed and implemented an internal WebSphere MQ monitoring web application in ASP.NET MVC.
- Participated in source control management using SVN and CMS repositories
- Provided direct support to multiple departments and business units.

L-3 Communications, Communications Systems--West Santa Maria, California

Software Developer / Trajectory Analyst May 2006 / April 2009

Provided scientific software design and support, developing algorithms and models for a rocket trajectory simulator.

- Performed rocket simulation design and analysis.
- Designed and implemented in-house libraries and mixed-language analysis packages.
- Developed custom VB.NET data processing software and analysis applications.
- Established a leading role in the redesign and modernization of legacy FORTRAN code base.
- Maintained interfaces to C++ libraries used for emulating Ada flight software & telemetry systems.
- Created scripts, GUIs, MATLAB tools & protocols resulting in increased unit productivity.
- Promoted and implemented a well-received wiki-based documentation process.
- Published reports to the customer resulting in 40 consecutive 100% contract award fees.

Raytheon, Space and Airborne Systems El Segundo, California

Multi-Disciplinary / Systems Engineer June 2004 / May 2006

Responsible for providing software development & general engineering support.

- Developed an online part tracking, failure documentation & repair status web suite leveraging Oracle database backends, third-party EJB/J2EE interfaces & a custom HTML/XML/XSLT/JavaScript/CSS frontend.
- Designed failure reporting documentation databases; VB/DAO/Access frontends, Oracle backends.
- Mathematical modeling support across several MATLAB projects supporting advanced radar systems.
- Increased contract profitability through spare part allocation models (object-oriented principles, advanced algorithms, VB, C++).

Mathematics Department California Polytechnic State University, San Luis Obispo, California

Graduate Teaching Faculty September 2002 / June 2004

- Served as an instructor for undergraduate calculus series.
- Prepared and delivered all lecture material.
- Assigned, collected & graded all coursework, including exams.
- Developed communication, organization & time-management skills.
- Received excellent reviews from students and staff supervisors.

Education

California Polytechnic State University San Luis Obispo, California
Master of Science, Mathematics September 2002 / June 2004

- 4.0 GPA
- Award for Outstanding Graduate Teaching

California Polytechnic State University San Luis Obispo, California
Bachelor of Science, Mathematics September 1998 / June 2002

- 4.0 GPA
- Outstanding and Meritorious Awards in the Mathematical Contest in Modeling
- Awards for Excellence in Mathematics, Outstanding Senior, Outstanding Junior
- Supplemental studies in statistics, physics & computer science

Personal & Professional References

Available upon request.