**PROFESSIONAL SUMMARY: Software Designer / System Architect**

With 20+ years as a full-stack software engineer, I have cultivated my reputation as a highly productive technical leader, keen to collaborate and solve problems. My approach leverages an appreciation for automation and process improvement. I recognize areas where we can make gains and improve processes for both humans and software. Combined with an aptitude and curiosity for learning, I am flexible and readily leverage my existing knowledge and experience to uncover meaningful insights.

These insights allow me to support, coach, and build solutions with and for cross-functional product delivery teams. I have embraced challenges, from massive volume to high concurrency, internal issues, B2B, and consumer-facing. I’ve worked with most configurations, from monoliths to microservices and from greenfield to decades-old systems. My curiosity has allowed me to have a broad perspective, and I’ve found that some of my most valuable contributions have been in less prestigious areas like software quality.

The technologies I’m most familiar with for each family are C#, Angular, SQL Server, Mongo, Docker, Azure & Kafka. I’ve utilized alternatives to all these, and I do not believe this stack suits most applications.

***It makes me happy to solve problems, build teams, and help bridge the gap between businesses and software development.***

**PROFESSIONAL EXPERIENCE**

**Solutions Architect | MBO Partners | Remote Jan 2022 – current**

I joined a 5-year-old project and got it released into production. My main contribution was to lead the design and implementation of software components to connect component platforms. We built a 15-person delivery team by leveraging offshore, in-house, and contract resources. The team's core focus is to create a maintainable system focusing on the traceability of data and activities to reduce the cost of ownership to the business. As an interface between the business units/technology, as well as onshore / offshore, I help each understand their partners' perspectives and help navigate tradeoff decisions.

Implementations used Java and Kubernetes in AWS, and we integrated with JobDiva, SAP S/4HANA Cloud, Vertex, ADP, and Okta.

**Senior Developer | Charles Schwab | Remote Jul 2020 – Jan 2022**

Assisted in maintenance and enhancements of the intelligent portfolio product. Prototyped new technology that provided visibility into the service mesh by taking machine-oriented data and presenting it in a human-centric fashion. I developed this proof of concept with C#, Blazor, Docker, and Kafka. Advised the lower environment strategy and prototyping of new technologies to improve testing outcomes.

**Founder | Possum Labs | Denver, CO Jan 2018 – Apr 2020**

In 2018, the consulting company transformed into a product company. We then developed and built a user-friendly web app for organizations’ business experts to describe desired outcomes for software in customizable domain-specific languages. Although the business shut down, it allowed me to develop and architect, learn how to run a business, build & mentor a team, and work with customers.

The architecture, development, and deployment were created with the budget in mind. Azure was the hosting platform, and a Kubernetes hosting strategy was chosen to allow future flexibility. Every operation in Azure was scripted to allow for environments to be provisioned as needed. The backend was written in C#, focusing on clear and consistent naming to help onboard engineers. Frontend development leveraged code generation. The frontend was written in Angular; despite being a heavy-weight solution, it allowed for small components to be worked on by junior engineers. Although Angular is complex, making changes to a single component is not intimidating and allows junior resources to build proficiency and confidence, peeling back the layers as they advance.

**Consultant for Possum Labs | Envision | Denver, CO Nov 2017 – May 2019**

Commissioned to build a test framework to simplify and illuminate automated testing for customer representatives and customers. I enjoyed the challenge of analyzing the issues and identifying what could be done better. Our solution leveraged natural language for test definition, making the reading, maintenance, and creation of automated tests accessible to subject matter experts who lack a programming background. Continued to provide technical support and mentor QA members post-contract.

**Consultant for Possum Labs | Starz Entertainment | Denver, CO Oct 2016 – Oct 2017**

My work entailed spearheading the framework development for two distinct automation and testing projects used by a mix of on- and offshore testers. This required coordination across departments and cooperation from various stakeholders to ensure the development of frameworks that deliver a high level of confidence.

• The first project required designing an automated testing framework for backend services consumed by mobile and web platforms. This project’s acceptance tests ran in Docker containers utilizing Cucumber for JavaScript.

• The second project focused on creating an automated load-testing framework that simulated up to half a million concurrent users watching content. This framework, built using Node, Angular 2, and TypeScript, effectively tested production conditions.

**Consultant | Trimble | Denver, CO Feb 2016 – Aug 2016**

Mentored a team of test engineers. Designed and implemented a new and more efficient test framework. I relied upon my skills in both people and processes to successfully achieve our end goal. The completed project was designed to interact with an existing ESB architecture built on Kafka using Specflow and Selenium.

• The framework achieved the stated goals, including reducing the volume of code required by 80% and increasing delivery speed three-fold.

• Adopted for use by teams in New Zealand and India, the final product also improved the capacity to address increasingly complex front- and backend and integrated scenarios.

**Consultant for Possum Labs | Glowpoint | Denver, CO Nov 2014 – Nov 2015**

Collaborated with the Glowpoint team to design and implement an Exchange synchronization solution. I achieved project goals through innovative product design, including a solution that allowed Exchange users to add services to meetings without the need for plug-ins.

• The product was compatible across all platforms and clients (Outlook, etc.).

• The fault-tolerant solution required no client-side software deployment and was implemented using Exchange Web Services (EWS), C#, and SQL Server.

**Consultant for Possum Labs | CoBank | Denver, CO Oct 2013 – Nov 2014**

Led architecture and development on the rewrite of an internal data maintenance application. We accomplished the goal of updating to supported technology, reducing the cost of ownership, and improving the user experience by utilizing discovery rather than configuration, code generation, and focusing the user's attention on related and applicable data.

**Senior Technical Consultant | Mortgage Cadence | Denver, CO May 2011 – Oct 2013**

Led a team, providing technical leadership for a SaaS product that generates mortgage contracts. We successfully achieved an aggressive expansion of the customer base. This success came through focusing on communication so all stakeholders could participate and offer insight.

• Created, led, and mentored a cross-functional team to increase production capacity.

• Expanded tooling for the team’s document experts and expanded product offering using 3rd party integrations.

• Introduced automated testing and automated deployments.

• Introduced better metrics for production operations and business owners.

• Technologies used were ASP.MVC 4 Web API, Windows Presentation Foundation (WPF), C#, and SQL server.

***For a full detailed job history going back to 2004, see https://www.linkedin.com/in/bashamer***

**SKILLS**

**Programming languages:**

|  |  |  |
| --- | --- | --- |
| ASP.NET (10+ years)  C# (10+ years)  HTML / CSS (10+ years) | Java Script (10+ years)  SQL (10+ years)  T4 (6 years) | TypeScript (4years) |

**Technologies & competencies:**

|  |  |  |  |
| --- | --- | --- | --- |
| Agile practices  Analytics  Angular  AngularJS  AWS  Azure  Azure DevOps  Bamboo  Bit Bucket  Blazor  Bootstrap  CI/CD | Cloud Computing  Design patterns  Docker/Kubernetes  Git  GraphQL  Internationalization  IOC  HTML5  Jenkins  jQuery  MongoDB  .NET (since 1.1) | .NET Core (since 1.0)  Node  NoSQL  OOP  PowerShell  Power BI  Responsive Design  RESTful Web Services  SaaS  Scrum  Selenium  SignalR | SOA  SpecFlow  TCP/IP  Vue.js  Unit testing  Web API  WireMock  WF |

**Operating Systems:**

• Windows

• Unix (Solaris, FreeBSD, OpenBSD, Alpine Linux, Red Hat)

**EDUCATION**

Dual B.S. Computer Science & Mechanical Engineering | University of Colorado at Boulder | 2004

**LANGUAGES**

• English

• Dutch