Jeff Doolittle

jeff@jeffdoolittle.com • https://jeffdoolittle.com

Software Architect with over twenty years of experience practicing excellence in design and architecture of software systems, including effective developer leadership and mentorship.

Skills and Experience

Excels at System Design, Project Design, Process Design and Team Leadership

Technologies: C#, Java, Javascript, RabbitMQ, PostgreSQL, MSSQL, Oracle, Xamarin, git, Agile, Event Driven Architecture, Service Oriented Architecture, Microservices, REST, Project Design, System Design, Transformational Leadership, Servant Leadership, Automated CI/CD Pipelines, Python, node.js, Angular/React/Ember, Kafka

Industries: Food Processing, Agriculture (Stone fruit, citrus, almonds, pistachios, etc.), Construction, Logistics, Charter Busses, Medical Claims and TPA, Packaging Materials, Finance, Accounting, Non-profit management

Values: Innovation, Compassion, Risk-taking, Self-starting, Lifetime-learning, Helping others grow to meet their potential

Work Experience

Viewpoint Construction Software, Portland OR
Senior Software Architect | 11/2019 - Present

- Designing System Architecture for replacing legacy on-premises applications with cloud-hosted, distributed, event-driven collaboration and business intelligence systems.

- Mentoring and training architects and engineers in principles of System Design, Project Design and Process Design.

Aplos Inc., Fresno CA
Senior Software Engineer | 09/2018 - 11/2019

- Rearchitected a monolithic legacy C# ASP.NET/Razor MVC web application. Separated frontend and backend. Introduced modularity, composability, and separation of concerns, significantly improving developer productivity and system maintainability.

- Implemented an event-driven architecture with Python and RabbitMQ to provide event-driven integrations from a Java and Oracle core system to third party systems such as SalesForce and Hubspot, replacing an antiquated, high-latency batching system based on change set polling.

- Wrote a library of git automation tools in Python to synchronize pulls and commits across dozens of repositories, greatly improving developer productivity with source code control.

- Implemented a Text-to-give system in Java and Ember with Twilio integration for donor messaging, and WePay integration for Credit Card and ACH transaction processing.

Lotpath Inc, Fresno CA
CTO and Co-founder | 01/2007 - 09/2018

- Designed and implemented multiple Azure hosted SAAS products built with an event-driven architecture backed by RabbitMQ and PostgreSQL. These products included front end clients built with Bootstrap, Angular.js and Xamarin. Also implemented fully automated cloud asset provisioning and continuous deployment for the SAAS products. These products ranged from product quality control and harvest scheduling, to farm labor tracking and payroll. Each product benefited from a fully automated CI/CD pipeline.

- Provided ag-tech consulting services for dozens of companies in various problem domains from order fulfillment and inventory with mobile barcode scanners, to web-based enterprise budgeting for a $100M diversified farming operation integrating with Oracle and PostgreSQL.

SJV Technology Group, LLC, Fresno, CA
CTO | 01/2003 - 01/2007
Software Engineer | 08/1999 - 01/2003

- Designed and implemented multiple ERP, Budgeting, and other line-of-business applications for clients such as Odwalla, Coca-Cola, and Del Monte using tools such as C#, Windows Forms, WPF, Microsoft Access, MSSQL, PHP, NHibernate, PostgreSQL, Oracle, Windows Mobile, and whatever else was needed to get the job done.

- Began as a Software Engineer in 1999. Promoted to CTO and Partner in 2003.

Other Accomplishments

- Host on Software Engineering Radio. https://se-radio.net
- Passionate about music, particularly guitar, piano and drums.
- Trainer of developers ultimately hired by companies such as Google and Tune-in.
- Continual mentor of fellow Software Architects and Junior Developers.
- Alumnus of the IDesign Architects Master Class and Project Design Master Class.

Education

BS in Business Administration, Marketing emphasis, Biola University

MA in Transformational Leadership, Bethel University, *Summa Cum Laude*

Endorsements

I had the great pleasure of meeting Jeff over a decade ago. I was instantly impressed with his grasp of software development and architectural/design concepts. He has a true passion that is felt immediately, and he became my "Go To" for large projects, complicated concepts, and cutting edge solutions.

Having been in IT for 25 years and 16 of those years in software development, when I found an opportunity to have Jeff as a mentor I jumped at the chance. I wanted to benefit from his strong leadership skills, passion, and personal drive for constant learning and improvement. Jeff has shared great insights, concepts and has given me the push I needed to not only continue my professional development but my personal growth as well.

I highly recommend Jeff to anyone that wants to be challenged and to grow professionally & personally, Jeff genuinely cares and wants to share and develop together and to help you achieve your goals. I will always be grateful for Jeff's time, friendship, & guidance and I believe others will feel the same. I highly recommend Jeff to anyone wanting to grow personally and professionally.

Jeremiah Baird, CPO, GigRonin

Jeff has the exceptional ability to quickly and elegantly express ideas in clean, working code. He has experience in doing that in every aspect of a software project - server, mobile, web, "cloud," whatever. He has courage to "dive in" and embrace new challenges. Combined with a passion for sharing his knowledge, an eagerness to engage with others, and a servant heart, he is a software engineering leader.

Greg Fiske, Senior Software Engineer, Lotpath

I've worked with a lot of software architects and developers over the years and I have to say that Jeff is one of the best. His passion, creativity and craftsmanship make him a delight to work with. He is smart, personable and has great communication skills. He embodies Agile values, particularly Communication, Courage, and Respect. If you have an opportunity to collaborate with him, don't pass it up! TWO BIG THUMBS UP!

David Chilcott, Founder & President, Outformations

Jeff is a top-notch professional who knows his stuff, cares about his customers, and gets things done. I always recommend Jeff enthusiastically and always sleep well when Jeff is on the case.

Ward Bell, President, IdeaBlade

Portfolio

MRP System with ERP Integration for a National Premium Juice producer
1999-2007

Worked with a team to build a customized materials resource planning system using VB, MS Access and MS SQL to meet the specific and specialized needs of the company. The system tracked and traced product through the entire lifecycle from purchasing procurement, raw material and packaging in-transit, receiving, inventory, production staging, production, post production, finished goods, order fulfillment, and outbound shipping.

The system included a powerful forecasting module which, given a specified expected product demand, would generate a full bill of materials for all necessary production inputs. The forecasting module would determine what on-hand product was available to fulfill the forecast, as well as what product would need to be purchased, including the necessary lead times for receiving the raw materials. This allowed for just-in-time production planning, reducing the cost of carrying an excessive raw materials inventory.

Additionally, a C# .Net windows mobile application was created for raw material receiving, inventory management, finished goods management, and order fulfillment. This application removed the need for paper, significantly reduced order fulfillment errors, and greatly improved data collection efficiency and accuracy. The near-real time nature of the application allowed business decisions to be made in a more nimble fashion, and eradicated the need for data entry from a paper source, minimizing errors and increasing efficiency.

Product Quality Tracking System for a major producer of fruit cups

Designed a customized product quality reporting application. The system was designed to track dozens of key quality metrics, measured at multiple intervals throughout the production cycle. Quality metrics were used to inform various business decisions related to product safety, specification conformity, and fitness regarding customer requirements.

Integrated with Mettler Toledo scales for verifying product weight tolerances in an automated fashion.

Charter Bus Company System Migration

Migrated a legacy VB6 application to C# .Net for charter bus logistics. This application is the primary tool of business operations for this client so success was mission critical. Major features included ordering, CRM, billing, accounts receivable, dispatch management, and driver payroll.

Additionally, created a WPF large-font dispatch dashboard, similar to arrival/departure screens seen in airports. This application auto-provisioned multiple scheduled days across a dynamic number of connected large screen monitors. The application greatly improved schedule visibility and collaboration, removed the need to manually write on a blackboard, reduced errors, and allowed schedule modifications directly in the application without the need to erase and rewrite.

Diversified Farming Operation Systems

Created multiple applications for a $100M revenue diversified farming operation.

Built a budgeting system for planning resource allocations across all aspects of the farming operation, including expected labor allocations, water allocations, plantings, equipment usage, and land related expenses. Most agricultural budgeting systems are built for smaller operations that budget per cost center (field). This system was designed to allow for budgeting by groups of cost centers, allowing for budgeting and allocations at a higher level. This approach increased efficiency of creating budgets, including various trial budgets for comparison. It also alleviated the previous requirement for accountants to budget at an excessively granular level, or perform their budgeting in a disconnected system such as Excel.

Also built a farm labor tracking system which provided a shared interface for Labor Contractors and the company for payroll calculations and reporting.

Lotpath Quality SaaS Application for Fresh Produce Inspections

Built the best-in-class, de facto cloud-hosted web and mobile application for Fresh Produce inspections. The system enabled produce companies to customize their inspection protocols according to the demands of their various critical control points such as receiving, packing, cold storage and shipping. The real-time nature of the quality data collection enabled users to make more accurate and efficient decisions regarding production scheduling, and product-customer fit.

Brio Harvest SaaS Application for Agricultural Harvest Scheduling

Built a cloud hosted web and mobile collaboration application for agricultural harvest scheduling. The application replaced Excel spreadsheets, emails and text messages previously in use for managing harvest scheduling and logistics. The application improved communication accuracy and efficiency between the different participants in the harvest process, and enabled improved production planning based on more accurate harvest forecast information coming from the field.

Pago Labor SaaS Application for Farm and Agricultural Labor Management

Built a cloud hosted web and mobile data collection and compliance application for agricultural labor. The application ensured full chain of custody for all labor and production related data, minimizing errors and greatly reducing the ability to game the system or commit payroll and employment fraud. The system also contained a powerful compliance engine for ensuring compliance with regulatory requirements, while still allowing for innovative compensation strategies such as pay-per-piece.

GigRonin Saas Application for Real-time, On demand staffing

Advised GigRonin on architecting their cloud hosted web and mobile staffing system. Mentored senior management regarding System Design, Project Design, Process Design and Team Leadership.