

JOSH DUTCHER

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LEAD SOFTWARE ENGINEER

Merging software architecture expertise with the strategic vision to build tech that matters

Strategic and collaborative software engineer with a record of success in developing efficient, scalable, and secure software solutions and managing all phases of the software development life cycle (SDLC). Scope, prioritize, and deliver new software solutions, enhance existing platforms, automate processes, and build and extend APIs. Advocate for reliability and continuous delivery through robust visibility, rigorous testing and monitoring, and efficient workflows. Offer a wealth of knowledge about best practices to help a startup or early-stage company establish technology strategies and processes, design products, make build vs. buy decisions, and implement a culture of collaboration and excellence to optimize software team effectiveness. Combine business acumen with software expertise to bridge the gap between business units and software development teams.

Known for entrepreneurial spirit, high-quality service, transparent communication, emotional intelligence, and critical thinking. Decisive leader who demonstrates adaptability, agility, and strong relationship-building skills. Passionate about contributing to social justice and equity causes and developing technology solutions that support a promising future.

CORE COMPETENCIES

Software Architecture	Product Design/Roadmapping	Leading Cross-Functional Teams
API Development	Well-documented, Scalable Code	User-Centered Problem Solving
Continuous Integration/Delivery (CI/CD)	Process Automation	Shaping Organizational Direction
Monitoring and Visibility	Project Management/Prioritization	Integrating 3 rd -Party Tools

TECHNICAL SKILLS

Languages:	Go, Protobuf, PHP, SQL, JavaScript, JSON
Databases:	MySQL, PostgreSQL, Microsoft SQL Server
Frameworks:	gRPC, jQuery, Laravel, CakePHP, SlimPHP, SmartyPHP, KendoUI

PROFESSIONAL EXPERIENCE

Ad Hoc LLC, Remote

Software Engineer III

Sep 2019 – Apr 2023

Gathered project-specific requirements from stakeholders, prepared action plans and estimates, and developed clean, scalable code to extend the API and automate processes for a recently deployed client application: Medicare.gov Plan Finder. Diagnosed and resolved critical incidents, deploying code solutions that minimize downtime. Prepared approachable documentation and wrote unit, integration, and smoke tests. Communicated technical concepts to non-technical stakeholders during product demo meetings. Observed user research sessions, integrating insights into product development and improvement roadmaps. Participated in post-incident retrospectives to identify opportunities for continuous process improvement.

- Contributed to development of a robust solution that maintained 100% uptime during 2022 Open Enrollment, served a peak of 80,000 requests per minute, and enabled 982,000 people to enroll in Medicare coverage.
- Played a key role in developing custom extract, transform, load (ETL) process, written in Go and Bash, which imported millions of health insurance plan data points from multiple providers daily and optimized data storage in Postgres.
- Facilitated informal discussions between engineering and product teams to improve non-technical stakeholders' understanding of technical processes in an Agile/Scrum environment. Provided talking points to product managers.
- Reviewed job applicants' technical submissions as part of the interviewing/hiring process.

BG Products, Wichita, KS

Software Developer

Jan 2018 – Aug 2019

Designed, built, delivered, and maintained software solutions, translating business requirements into technical specifications and managing project estimates and scheduling. Created technical documentation. Researched and resolved issues with stability, security, and performance. Troubleshoot server issues, maintained SQL databases, resolved bottlenecks, and enhanced existing code. Participated in design and code reviews. Assisted with architecture, design, implementation, and deployments of SmartVMA applications, AWS, and Azure. Administered and configured AWS services, including EC2 instances, Route 53, and S3.

- Designed and implemented a custom PHP API server for an updated mobile app, including OpenAPI 3.0 specifications and auto-generated API docs. Increased response speed by as much as 1000%.

- Authored Azure functions to automate ETL of vendor data from FTP site to SQL Server production database, reducing human interaction and speeding up the process by 15%.
- Created a virtual machine image using Vagrant, Windows Server, Chocolatey, and PowerShell scripts, providing engineering team members with identical, custom, standardized development environments to eliminate deployment errors due to environment or configuration inconsistencies.
- Introduced modern software workflow procedures, including version control. Transitioned pull requests, code reviews, and deployments from FTP uploads to Git, vastly reducing deployment errors and supporting the quick location of issues.

SNT Media, Wichita, KS

Lead Software Engineer

Sep 2015 – Oct 2017

Performed back end API development in a fast-paced startup environment. Built content-driven sites on topics in sports, finance, and real estate, using various data environments and proprietary engines to create auto-generated content for those sites. Collaborated with cross-functional teams to develop numerous products in a short time.

- Rewrote a custom PHP data-fetching engine that powered a stock market website. Reduced API calls by 98% and monthly costs by \$18,000 while improving data accuracy and timeliness.
- Led a team of developers to plan, build, and launch an AI-driven football website, meeting or beating all deadlines.
- Headed a cross-functional team to create and document new company-wide software development standards, providing a reference point for new employees regarding coding syntax, formatting, and general procedures and philosophy.
- Directed a team to conduct mobile ad industry research related to the company's existing products; presented findings to C-level managers, avoiding a likely unprofitable investment by advising against building the product for mobile.
- Created and deployed back end service-layer APIs using Lumen framework to power sports and real estate websites. Wrote custom, automated ETL processes to aggregate data, including images, used to auto-generate content.

PK Technology, Wichita, KS

Application Developer

Jul 2014 – Sep 2015

Coordinated with QA, management, and operations teams to develop, debug, and deploy mobile and web products for this provider of mechanical integrity, coating, fireproofing, and fabric maintenance inspection services. Focused on the development and maintenance of PK's primary product, intelliSPEC, an iPad application for use in capturing oil and gas equipment and facility safety inspection data and providing real-time reporting.

- Collaborated with a cross-functional team to build and deploy a critical comprehensive back end application that enabled customers to manage inspection configurations and data.
- Built a complete API server that allowed the iPad app to exchange inspection data with servers. Minimized payload to accommodate inspection locations' poor wireless signals.
- Programmed the intelliSPEC server-side code using CakePHP MVC framework and front end interface using Kendo UI JavaScript framework.
- Played a key role in preparing intelliSPEC for market launch and adoption by customers such as BP, Dow, Koch Industries, and ExxonMobil.

University of Kansas, Lawrence, KS

Project Management Assistant – Office of IT Project and Process Management

Sep 2013 – Jan 2014

Performed data entry and validation for IT and construction projects and assisted with research and data aggregation projects. Coordinated project status updates between departments and managers.

Web Application Developer – Transition Coalition, School of Education

Sep 2010 – Jul 2013

Developed and managed the Coalition's website, an interactive educational tool. Conceptualized, programmed, and maintained web applications specific to other projects. Performed custom development for additional online learning platforms.

EDUCATION AND TRAINING

University of Kansas, Lawrence, KS

Bachelor of Science in Information Systems and Technology

Udemy, **Product Management Certification + Agile Product Owner + Scrum**, 2023