

Josh Dutcher

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Summary

Seasoned Software Engineer with over 20 years of experience in engineering, technical product management, and project and team management. Spearheaded high-impact initiatives, instrumental in optimizing data storage and API development, ensuring system reliability. Proven track record in incident management and process improvement.

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.

Work Experience

DDx (Democratic Data Exchange)

Software Engineer - Cycle Hire | Remote | May 2024 - December 2024

- Contract position for the 2024 presidential election cycle
- Led a high-priority project focusing on the transformation and delivery of incoming survey response data to NGP VAN, a principal stakeholder, delivering 20.4 million records in the 2 months leading up to the 2024 election.
- Constructed and iterated on data pipelines in python including command line utilities, and AWS infrastructure including lambda functions, DynamoDB, IAM, SNS, SQS, and Snowflake data warehouse.
- Automated ETL of incoming data to Snowflake using Snowpipes.
- Managed critical incidents: facilitate teamwork and delegate tasks to maintain team focus on rapid resolution.

Ad Hoc LLC

Software Engineer III | Remote | Sep 2019 - Apr 2023

- Synthesized complex project requirements and developed effective action plans, resulting in the efficient extension of API and automation of key processes for a client application. Expertly diagnosed and resolved critical incidents to minimize downtime, ensuring the stability and reliability of the system.
- Successfully developed comprehensive and user-friendly documentation, and carried out rigorous unit, integration, and smoke tests to verify system functionality. Effectively communicated technical concepts to non-technical stakeholders, aiding in the overall understanding and appreciation of the product.
- Leveraged user research insights to enhance product development strategies and improvement roadmaps. Participated actively in post-incident retrospectives, identifying and implementing strategies for continuous process improvement.
- Played a pivotal role in executing a custom extract, transform, load (ETL) process that optimized data storage, accommodating millions of health insurance plan data points daily. This innovation facilitated an unprecedented 100% uptime during Open Enrollment, serving up to 80,000 requests per minute and enabling 982,000 enrollments.
- Fostered open communication between engineering and product teams, improving non-technical stakeholders' understanding of technical processes in an Agile/Scrum environment and aiding in the efficient review of job applicants' technical submissions.

BG Products

Software Developer | Wichita, KS | Jan 2018 - Aug 2019

- Translated business requirements into technical specifications, managed project timelines, and crafted technical documentation. Also resolved server issues, debugged and enhanced existing code, and actively participated in design and code reviews.
- Designed a custom PHP API for a mobile app update, resulting in a significant increase in response speed by up to 1000%, and automated vendor data ETL via Azure functions, boosting process speed by 15%.
- Created a standardized virtual machine image, mitigating deployment errors due to environment inconsistencies, and introduced modern software workflow procedures, notably version control via Git, drastically reducing deployment errors and aiding quick issue location.

SNT Media

Lead Software Engineer | Wichita, KS | Sep 2015 - Oct 2017

- Led back end API development for auto-generated content across multiple sectors, successfully coordinating with diverse teams to expedite product development.
- Revamped a PHP data-fetching engine, significantly reducing outbound API calls by 98% and saving \$18,000 in monthly costs, while enhancing data precision and promptness.
- Supervised the creation of comprehensive software development standards, offering guidance for new hires concerning coding syntax, formatting, and general procedures.

PK Technology

Application Developer | Wichita, KS | Jul 2014 - Sep 2015

- Developed, debugged, and deployed web and mobile products, including an iPad application for capturing and reporting safety inspection data in real-time for the oil and gas industry.
- Constructed an exhaustive back-end application enabling customers to manage inspection configurations and data, in collaboration with a cross-functional team.
- Programmed server-side code and front-end interface for the main application, while also building a dedicated API server for data exchange, optimizing payload for poor wireless signals.

University of Kansas

Project Management Assistant – Office of IT Project and Process Management | Lawrence, KS | Sep 2013 - Jan 2014

- Executed accurate data entry and validation for multifaceted IT and construction projects, simultaneously assisting with comprehensive research and data aggregation initiatives.
- Effectively coordinated cross-departmental communication, ensuring consistent project status updates between various departments and management levels.

Education

University of Kansas

Bachelor of Science in Information Systems and Technology | Lawrence, KS

Certifications

Product Management Certification + Agile Product Owner + Scrum | Udemy | 2023

Skills

Python, PHP, Go, AWS, Snowflake, Postgres, Terraform, Software Architecture, Project Management/Prioritization, Continuous Integration/Delivery (CI/CD), Monitoring and Visibility, Process Automation, Leading Cross-Functional Teams, Agile and Scrum methodology expertise, API Development, Jenkins, Github Actions, Scalable Code