Rocky Warren

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Summary

AWS Certified Solutions Architect - Associate with over ten years of experience shipping and maintaining tested, distributed, secure systems from thousand-line microservices responsible for moving billions of dollars each year to multi-million line GPS guidance systems. Utilize object-oriented, functional, statically-typed, dynamic, and database languages to deliver customer value. Lead teams as Technical Lead, Principal Engineer, and Technical Co-founder.

Quotes from co-workers,

- Vice President: "If no one is telling you, it's appreciated how intentional you are with growing our collective knowledge and being a champion for training. Thanks for doing this stuff Rocky. I've also been hearing great things about your contributions and speed of delivery. Everyone is really impressed."

- Tech Lead and Manager: "He's a one man wrecking crew, one of the most productive engineers I've worked with."

Experience

Staff Data Engineer
Vertex Software

Sep 2019- Present

8 months +

- Architect and implement distributed, streaming, event-driven systems capable of sub-second bill of materials updates on huge CAD models. Exposed through REST APIs built against JSON:API and CloudEvents specifications. Code coverage >90%.

- Created and own Scala core libraries and build plugins to reduce duplication, improve security, and multiply engineering team's productivity.

- Regularly audit AWS costs and sped up local development startup times 5x, saving tens of thousands of dollars per year to date.

- Scala, TypeScript, PostgreSQL, SQS, Lambda, Shell, Docker Compose, Kafka, gRPC/Protobufs.

Principal Software Engineer
Dwolla

Jun 2016 - Sep 2019

3 years 4 months

- Transitioned most business-critical database table from mutable to immutable, enabling point-in-time user balance queries, robust statements, and snapshots. Snapshots resulted in query speeds up to 200x faster and a 75% reduction in database deadlocks.

- Migrated webhooks to serverless Lambda functions and scaled to millions of messages a day while reducing peak delays from hours to minutes and cutting costs by 50%. Launched with zero downtime (and greater than zero fist pumps).

- Scala, TypeScript, Python, C#, Docker, Thrift, Redis, MySQL, SQS, Lambda, DynamoDb, Athena.

Technical Co-founder
Crucible Commodities

Jul 2014 - Dec 2016

2 years 6 months

- Built commodities trading platform from the ground up complete with reactive, real-time market, PDF contract generation, and e-signing.

- Secured with encryption in transit and at rest, A+ Qualys TLS score, and OWASP Top 10 mitigations.

- Node, React, GraphQL, DynamoDB, Lambda, Serverless Framework.

Lead Developer
Dwolla

Jul 2014 - Jun 2016
2 years

- Led development of API responsible for moving billions of dollars per year while decreasing partner "time to first API call" from hours to minutes with step-by-step guides and SDKs.
- Led Instant Bank Verification, cutting account verification times from three days to a few seconds via 3rd party integration. Built as containerized, auto-scaling microservice.

Senior Software Engineer
Dwolla

Jul 2012 - Jul 2014
2 years 1 month

- Led company's foray into microservices with Dwolla Credit, integrating a credit provider to inject millions in buying power into the network. Mitigated partner downtime with caching and fault-tolerant batch jobs.
- Won internal hackathons by reducing ACH clearing times and allowing account creation via API. Each influenced what are now best-selling products.

Technical Lead
John Deere

Jan 2010 - Jul 2012
2 years 7 months

- Led CommandCenter project development, an in-cab self-driving GPS guidance display. Now factory installed in all large-scale John Deere vehicles worldwide. Two million+ lines of code, released on schedule, with all known defects closed.
- Led regular meeting of 25 tech leads across all guidance displays comprising over 150 developers.

Software Engineer
John Deere

Jan 2008 - Jan 2010
2 years 1 month

- Led coding Katas of multiple 50+ developer groups teaching keyboard shortcuts, refactorings, test-driven development, pair-programming, and Linux shell commands.
- Organized company's first Hackathons. After votes from 200+ employees, won both with customer analytics, predictive keyboard, touch screen gestures, and Tetris! Demoed results to CEO and staff.

Software Developer
University of Iowa

Aug 2006 - Feb 2008
1 year 7 months

- Created psychology studies and GUIs in DirectX and GDI+.

Software Engineer Intern
John Deere

May 2006 - Jan 2008
1 year 9 months

Education

University of Iowa
Bachelor of Science (B.S.), Computer Software Engineering

2003 - 2007

Certifications

AWS Certified Solutions Architect - Associate • Amazon Web Services (AWS)

Apr 2020 - Apr 2023

Triplebyte Certified Generalist Software Engineer • Triplebyte

Jan 2017 - Present