

# Rocky Warren

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## Summary

Over ten years of experience shipping and maintaining tested, distributed, secure technologies 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.

## Experience



### Staff Data Engineer

Sep 2019- Present

Vertex Software

8 months +

- Architect and implement distributed, asynchronous, event-driven microservices capable of sub-second bill of materials updates on huge CAD models.
- Own Scala core libraries and build plugins to reduce duplication and improve security and team efficiency.
- Audit AWS costs and sped up local development stack startup times, saving tens of thousands of dollars/year to date.
- Scala, TypeScript, PostgreSQL, SQS, AWS Lambda, Shell, Docker Compose, Kafka, gRPC/Protobufs.



### Principal Software Engineer

Jun 2016 - Sep 2019

Dwolla

3 years 4 months

- Re-architected from mutable to immutable transactions, enabling robust statements, point-in-time balance queries, and snapshots. Snapshots resulted in query speeds up to 200x faster for our largest customers and 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. Launched with zero downtime.
- Scala, TypeScript, Python, C#, Docker, Thrift, Redis, MySQL, SQS, AWS Lambda, DynamoDB, Athena.



### Technical Co-founder

Jul 2014 - Dec 2016

Crucible Commodities

2 years 6 months

- Built commodities trading platform from ground up complete with reactive, real-time market, PDF contract generation, and e-signing.
- Focus on security with data encryption, A+ Qualys TLS score, and OWASP Top 10 awareness.
- Node, React, GraphQL, DynamoDB, AWS Lambda, Serverless Framework, Git.



### Lead Developer

Jul 2014 - Jun 2016

Dwolla

2 years

- Led development of API responsible for moving billions of dollars/year. Decreased 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 2-3 days to a few seconds. Integrated with 3rd party, built as containerized microservice to facilitate fast deployment and reuse.



## Senior Software Engineer

Jul 2012 - Jul 2014

Dwolla

2 years 1 month

- Led company's foray into microservices with Dwolla Credit, integrating credit provider to inject millions in buying power into network. Cached certain API responses to sustain partner downtime, created fault-tolerant daily batch jobs, and bolstered fraud rules.
- Won internal hackathons by reducing ACH clearing times from three days to one and allowing account creation via API. Each influenced what are now best-selling products.



## Technical Lead

Jan 2010 - Jul 2012

John Deere

2 years 7 months

- Led CommandCenter project development, an in-cab guidance display capable of self-driving agricultural vehicles via GPS and/or corn-row sensors. Now factory installed in all large-scale John Deere vehicles worldwide. Two million+ lines of code, released on schedule, all known defects closed.
- Coordinated group of 25 technical leads across all guidance displays, over 150 developers.



## Software Engineer

Jan 2008 - Jan 2010

John Deere

2 years 1 month

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



## Software Developer

Aug 2006 - Feb 2008

University of Iowa

1 year 7 months

- Created psychology studies and GUIs in DirectX and GDI+.
- Refactored existing 20,000 line procedural program into object-oriented C++.



## Software Engineer Intern

May 2006 - Jan 2008

John Deere

1 year 9 months

## Education



### University of Iowa

2003 - 2007

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

## Skills



Scala • JavaScript • Python • C# • Amazon Web Services (AWS) • PostgreSQL • NoSQL • API Development • Technical Leadership • Software Architecture

## Certifications

### Triplebyte certified Generalist Software Engineer • Triplebyte

Jan 2017 - Present