

## SUMMARY

- Hands-on, highly technical, leader by example, and effective mentor
- Innovative problem solver with a proven track record of architecting scalable and reliable systems
- Fast and eager learner with an itch for solving difficult and impactful problems
- Polyglot programmer, functional programming fan, and programming language hobbyist

## SKILLS & INTERESTS

**Programming Languages:** Scala • TypeScript • SQL • Ruby • Java • Python • Haskell • Rust • Elixir • F# • Go  
**Tools:** AWS • Docker • MySQL • PostgreSQL • Redis • MongoDB • Nginx • Terraform • SaltStack • Chef

## EXPERIENCE

### BONDLINK

Director of Backend Engineering (October 2019 - Present)

- Led a team of four engineers in critical product development initiatives across several applications.
- Applied advanced functional programming techniques in Scala to produce high quality, maintainable, and correct software.
- Rearchitected customer-facing web app with a focus on speed, simplicity, and maintainability.
- Interfaced with product, design, marketing, and frontend engineering teams to achieve company goals.

Senior Software Engineer (September 2016 – October 2019)

- Designed and implemented key features of an evolving product to secure the company's first sales.
- Collaborated with third-party partners and cross-functional teams to develop integrations and meet client needs.
- Mentored and pair programmed with onboarding and junior engineers to familiarize them with the codebase, best practices, and industry knowledge.

### LOCALYTICS

Software Engineer II (April 2015 – September 2016)

- Built key product features and made critical improvements to application performance and server reliability in customer-facing web apps and APIs.
- Enhanced deployment and production systems management through development of internal tooling.
- Coordinated the transition to a new generation big data cluster with zero downtime.

### AMERICANINNO

Web Developer (October 2013 – April 2015)

- Maintained and improved PHP codebase built on the Yii framework.
- Researched and learned new technologies to use in solving product challenges and implementing user experience enhancements for partners and consumers.
- Facilitated expansion of the company's brand with new sites in Chicago, Seattle, Los Angeles, and Austin.

## PROJECTS

### ISSUER & INVESTOR ACTIVITY

- Bootstrapped a new Scala application to serve as an email notification system to keep investors up to date on BondLink issuers' activity.
- Developed polymorphic, type safe, and performant interface to aggregate real-time activity on issuers' websites.
- Built and exposed powerful CRM tools allowing clients to filter and engage with interested bond investors.

### API PERFORMANCE IMPROVEMENTS

- Discovered and implemented a series of performance improvements in Localytics' applications that decreased response time by 50% overall and up to 97% in cache lookups.
- Composed application-specific Chef cookbooks and resources to deploy servers using AWS CloudFormation.
- Researched and employed the circuit breaker pattern to harden production systems.

### SQL FORMATTER

[mattdziuban.com/sql-formatter](https://mattdziuban.com/sql-formatter)

- Employed JavaScript transpilers in 12 different programming languages to write a SQL formatter.
- Wrote unit tests in each language and gained familiarity with tooling across languages.

### A SEARCH OF ICE AND FIRE

[asearchoficeandfire.com](https://asearchoficeandfire.com)

- Built a serverless site providing Elasticsearch-powered full-text search of the *A Song of Ice and Fire* books.

## EDUCATION

### COLLEGE OF WILLIAM & MARY

Bachelor of Arts, Economics & Middle Eastern Studies  
Magna Cum Laude