

Zachary Smith

Objective

To have a key role in finding solutions to problems that do not yet have answers.

Contact Info

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Github

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<https://github.com/zaiquirii>

Current Residency

Seattle, WA USA

Knowledge Base

Experience With

Service based architectures

Large scale code migrations

Network Engineering

Process Optimization

CI/CD Systems

Data Engineering

Languages

Go Python

Rust Java

Kotlin Javascript

Elixir

DevOps Tooling

Kubernetes Nomad

AWS Terraform

Platforms/Frameworks

Android React

Work Experience

Kentik

Senior Backend Engineer

Remote

January 2023 - Present

- Maintained Kentik's data ingest pipeline (supporting a throughput of 10s of millions of events per second) while collaborating with a globally distributed team
- Directly responsible for building and maintaining the tagging service (a customer configurable system to enrich raw network data)
- Optimized service processes to handle ever increasing scale with a focus on resource constraints arising from running on non cloud hardware, realizing a 95% improvement in per process throughput
- Continuously built on and delivered low level platform capabilities to be utilized by product teams

Sabbatical

Sept 2022 - January 2023

- Took time off to move to Europe

Facebook/Meta

Senior Software Engineer

New York, NY / Remote

August 2019 - Sept 2022

- Developed core build and runtime systems underpinning Facebook's family of Android apps
- Optimized raw bytecode for the Android JVM to provide ergonomic and efficient libraries
- Regularly planned and executed large scale code migrations touching 10k+ files (100k+ loc)
- Developed tooling to provide novel visualizations into team and module dependencies that helped identify security vulnerabilities
- Collaborated cross-functionally to negotiate timelines and resource commitments for relevant technical projects

Wolfspreads

Fullstack Engineer, freelance

Remote

August 2019 - December 2020

- Released Android and iOS client (React Native) and developed full backend (Google Firebase)

Pymetrics

Lead Infrastructure/Fullstack Engineer

New York, NY

March 2016 - August 2019

- Led design and implementation of a service based system architecture deployed on kubernetes resulting in a 60% reduction in cloud spend while supporting more concurrent users
- Optimized database access and caching strategies to realize 99% reduction in resource utilization on key organizational workflows
- Designed and managed self service systems to reduce load on the infrastructure team
- Worked with Data Engineering to realize efficiency gains in their pipelines and workflows
- Mentored engineers on usage of new environment and tools

Inbox

Lead Android Developer

New York, NY

February 2014 - March 2016

- Led design and implementation of Inbox Messenger's Android application
- Advised product teams on Android best practices and conventions
- Mentored new hires on Android programming

Goldman Sachs Group Inc

Summer Technology Analyst

New York, NY

June 2013 - August 2013

Education

Bachelor of Science in Computer Science

Master of Science in Game Design and Simulation Programming

Stevens Institute of Technology • Hoboken, NJ • 2011 - 2015

(Degrees pursued concurrently)