

Noah Eisen

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EDUCATION

BACHELOR OF ARTS

MAJOR, COMPUTER SCIENCE

MINOR, MATHEMATICS

University of Michigan

May 2016

Ann Arbor, MI

Major GPA: 3.96

Cum. GPA: 3.87

LINKS

- github.com/ncteisen
- linkedin.com/in/ncteisen
- noaheisen.com

SKILLS

PROGRAMMING

Principal Languages

C++ • C • Python • Kotlin

Other Languages

Android • Java • SQL

Typescript • HTML • CSS

Tools

Git • Cursor • \LaTeX

OTHER

Running • Biking • Climbing

Skiing • Juggling • Magic

Ceramics • Creative Writing

Chess • Mountaineering

INTERNSHIPS

BLOOMBERG L.P.

May 2015 - Aug 2015

Full stack internship on the infrastructure team. Built internal tooling to help debug and kill processes running on production machines.

JUMP TRADING LLC

June 2014 - Aug 2014

QA internship. Wrote python testing wrappers to validate code that interacts with the exchange.

Authored and executed test suites against our live market feed system

WORK EXPERIENCE

FAIRE | STAFF SOFTWARE ENGINEER

Feb 2022 - Present | San Francisco, CA

Faire is an online wholesale marketplace that connects retailers and brands globally, empowering small businesses to compete with major retailers like Amazon and Walmart. In a dynamic startup environment, my role has evolved significantly, with key achievements including:

- Authored technical vision document for Faire's payment systems. Initiated and drove critical projects like extracting a payment service and developing a SQL-based invariant validation system. These systems eliminated payment-related SEVs.
- Served as Senior Engineering Manager and tech lead for the Shipping team, overseeing 8-12 engineers. Developed a long-term technical strategy to optimize shipping costs and improve system stability. Drove 25bp improvement to our contribution margin.
- Led 5 person tiger team to build Volume Pricing (akin to airline loyalty programs) from design to launch in under two months.
- Championed org-wide cultural transformations by leading cross-functional High-Performance Culture working groups, raising engineering standards and execution velocity.

WAYMO | SENIOR SOFTWARE ENGINEER

Feb 2019 - Feb 2022 | San Francisco, CA

Waymo is an Alphabet company focusing on the development of self-driving technology. I worked on the Fleet Infrastructure team where I was the tech lead for the OpsApp, an internal Android app that is used by 1000+ safety drivers daily. Some highlights include:

- Tech lead of 7 person team, including 3 engineers, a product manager, a product operations specialist, a technical program manager, and a UX designer.
- Received early promotion to Senior Software Engineer within first year of joining.
- Optimized datapath from the self driving car to the phone to achieve sub-300ms latency in support of streaming real-time telemetries to the safety driver.
- Designed the tooling that enables roadside assistance team to navigate to a self driving car on public roads within minutes of an incident. Authored a patent on the subject ([link](#)).

GOOGLE | SOFTWARE ENGINEER

Aug 2016 - Feb 2019 | San Francisco, CA

gRPC is Google's next-gen RPC system, built from the ground up in open source. gRPC is a highly performant system built around a simple yet powerful wire protocol. The library provides idiomatic APIs in nine supported languages. Through **250+ pull request**, and even more internal changes, I have contributed mainly to gRPC's C core. I have also made significant contributions to the C++ and Python wrapped layers. Some highlights include:

- Created the team's internal benchmarking framework, automatic regression detection system, and performance dashboards.
- Migrated TensorFlow's distributed runtime to use gRPC internally at Google.
- Implemented connection-level monitoring feature for the C++ stack, which exports critical debugging data of live services and presents them in a simple HTML page.
- Co-authored proposal for gRPC's client retry system ([link](#)).
- Delivered 40 minute tech talk at KubeCon; *gRPC Performance; Tuning Applications and Libraries* ([link](#)).