

# TIMOTHY PORTFOLIO

## CONTACT

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## LANGUAGES

*Proficient:*

🐍 Python 🌐 Java

*Intermediate:*

⚡ JavaScript (React)

*Familiar:*

🔗 C/C++ 📄 Bash

## PLATFORMS

🔗 Apache Kafka

🍌 AWS

🐕 Datadog

🚢 Docker

🚢 Kubernetes

📦 Protocol Buffers

📦 Redis

❄️ Snowflake

## TOOLS

🔗 Atlassian Suite

📦 Bazel

🔗 Git

📦 IntelliJ

📦 PyCharm

🔗 Visual Studio Code

## WORK EXPERIENCE

### Square

Jan. 2022 - present

#### Software Engineer (L5)

- Developer for the Orders Reporting API team, which is responsible for backend services that deliver insight into merchants' historical data, such as sales summaries and trends
- Implemented data pipeline that unifies two distinct transactional models representing all of Square's historical sales (over 25 billion records) as a single Kafka topic, used in a new Snowflake-powered reporting platform and by other internal teams
- Supported rollout of new sales trends report on [Dashboard](#) by improving data accuracy relative to legacy system and tuning query performance in data warehouse
- [1x Square-wide hack week winner](#) and 1x organization-wide hack week runner-up
- Active interviewer, with 40+ technical interviews conducted for external candidates
- Onboarding mentor for new team joiners, as well as part of company-wide Upskill Mentorship program

### The Boeing Company

Nov. 2017 - Jan. 2022

#### Software Engineer III (Oct. 2020 - Jan. 2022)

- Former software lead for the simulators portfolio of the P-8A acoustics program
- Expanded functionality of operator GUI and corresponding backend for the [Wave Glider](#), an unmanned surface vehicle built for data gathering at sea
- Led development of Python data translation tool for international client that earned an additional procurement contract

#### Software Engineer II (Nov. 2018 - Oct. 2020)

- Headed frontend migration effort for the P-8A acoustics program by leveraging React.js and Electron to increase responsiveness of data displays
- Optimized rendering time by more than 50% via significant throughput reduction and in-house module development
- Collaborated consistently with integration and test engineers from Navy clientele to ensure project milestones were achieved and delivered early

#### Software Engineer I (Nov. 2017 - Nov. 2018)

- Improved stability/performance of core Java displays for the P-8A acoustics subsystem
- Arranged and co-taught four-part Python seminar on behalf of several dozen members of the acoustics project

### University of California, Los Angeles

June 2016 - June 2017

#### Teaching Assistant - Engineering 183EW

- Taught analytical writing and public speaking skills to over 100 upperclassmen
- Graded research essays and held one-on-one conferences with students

## EDUCATION

### University of California, Los Angeles

Sept. 2016 - June 2017

Master of Science in Computer Science

GPA: 3.93

### University of California, Los Angeles

Sept. 2013 - June 2016

Bachelor of Science in Computer Science

GPA: 3.57