

# TIMOTHY PORTFOLIO

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## WORK EXPERIENCE

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### Square

Jan. 2022 – present

#### Software Engineer (L5)

- Senior 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
- Designed and implemented service 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
- Improved accuracy of new sales trends report on [Dashboard](#) by driving down dead-lettered messages from the aforementioned Kafka topic by over 98% across all time
- Directly responsible individual (DRI) for development of several new features in reporting, such as Afterpay tenders, unlinked refunds, and open orders
- [Company-wide AI hack week winner](#) as part of team that utilized ChatGPT in a proof of concept to enable merchants to generate Dashboard reports via text-based prompts instead of manual navigation and configuration
- Active interviewer, with 40+ technical interviews conducted for external candidates
- Onboarding mentor for four 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 (React) and corresponding Python backend for the [Wave Glider](#), an unmanned surface vehicle built for data gathering at sea
- Led development of Python acoustic 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 and Electron to increase responsiveness of data displays
- Optimized display rendering time by more than 50% via significant throughput reduction from Java backend and in-house module development on React frontend
- 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 and 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

## TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript (React, ES6), C++, SQL, HTML, CSS, Bash

**Data Management:** Apache Kafka, MySQL, Protocol Buffers (gRPC), Redis, Snowflake

**Cloud Services:** AWS (S3, SQS, Lambda), GCP (GKE, Spanner)

**Build/Deployment Tools:** Docker, Kubernetes, Bazel, Gradle, Terraform

**Developer Tools:** Bitbucket, Confluence, Git, Jira

**Observability:** Datadog, SignalFx

## EDUCATION

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### University of California, Los Angeles

Sept. 2016 – June 2017

Master of Science in Computer Science

### University of California, Los Angeles

Sept. 2013 – June 2016

Bachelor of Science in Computer Science