

# Peter Griggs

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## EXPERIENCE

### MIT CSAIL - DATA SYSTEMS GROUP | RESEARCH ASSISTANT

February 2019 - February 2021 | Cambridge, MA

- Worked with Professor Mike Stonebraker in the Data Systems Group to develop real-time database update interfaces using pan and zoom visualization systems
- Researched techniques for improving performance of spatial data indexing
- Integrated this work into Kyrix, a tool for authoring scalable interactive data visualizations using databases.
- Thesis available here: <https://peterg17.github.io/files/thesis.pdf>

### MEGAGON LABS | SOFTWARE ENGINEERING INTERN

May 2020 - Sep 2020 | Mountain View, CA

- Developed Leam, a system for coordinating text analytics and interactive data visualizations.
- Published Leam to CIDR database conference, paper here: [http://cidrdb.org/cidr2021/papers/cidr2021\\_paper09.pdf](http://cidrdb.org/cidr2021/papers/cidr2021_paper09.pdf)

### APPLE | SOFTWARE ENGINEERING INTERN

June 2018 - August 2018 | Sunnyvale, CA

- Developed and shipped a notification-as-a-service system with the Platform Infrastructure Engineering (PIE) team that reliably sends thousands of notifications a day.
- Implemented queuing and failover between datacenters to ensure at-least-once delivery of messages.

### NASDAQ | SOFTWARE ENGINEERING INTERN

January 2018 | Boston, MA

- Created Node.js backend for Blockchain app that audits sensitive business data.

### UNIFYID | SOFTWARE ENGINEERING INTERN

June 2017 - August 2017 | San Francisco, CA

- Implemented Kubernetes cluster to improve scalability of backend.
- Improved Continuous Integration for iOS app by adding more automation and better code quality statistics.
- Contributed to Go microservice by adding device-level authentication to API requests.

## EDUCATION

### MASSACHUSETTS INSTITUTE OF TECHNOLOGY | M.ENG IN COMPUTER SCIENCE

Cambridge, MA

TA for Computer Systems Engineering

GPA: 5.0 / 5.0 • Relevant Classes: Computer Graphics • Operating Systems Engineering • Distributed Systems

• Computational Photography

### MASSACHUSETTS INSTITUTE OF TECHNOLOGY | B.S. IN COMPUTER SCIENCE

Cambridge, MA

GPA: 4.2 / 5.0 • Relevant Classes: Machine Learning • Design and Analysis of Algorithms • Computer Systems Security •

Computer Systems Engineering • Compilers • Multimodal Interfaces

## SKILLS

### LINKS

Personal Website: [peterg17.github.io](https://peterg17.github.io)

Github: [peterg17](https://github.com/peterg17)

LinkedIn: [petergriggs](https://www.linkedin.com/in/petergriggs)

### TOOLS

Experienced:

Git • Postgres • Docker • unix shell •  
D3.js • React.js • Pandas • Flask • Node.js

Familiar:

Kubernetes • AWS • Redis  
• Tensorflow • Keras

### PROGRAMMING

Experienced:

Python • Java • Javascript • SQL

Familiar:

Go • C • C++ • Scala • Typescript •  
Swift