

# Lachlan McCarty

6389 Frist Center ♦ Princeton, NJ 08544

(609) · 558 · 6389 ♦ lachlan@lachm.com ♦ github.com/lachm

## EDUCATION

---

### Princeton University

*Bachelor's of Science in Engineering, Computer Science*  
GPA: 3.81, Departmental GPA: 3.93

May 2022  
Princeton, NJ

- Relevant Coursework: Economics & Computing, Machine Translation, Information Security, Operating Systems, Reasoning About Computation, Algorithms and Data Structures, Linear Algebra, Advanced Vector Calculus, Computer Architecture (dual-enrollment), Programming Systems (dual-enrollment)
- Activities: ACM Board, HackPrinceton (Development Subteam Head), University Housing Advisory Board

### Princeton High School

June 2018  
Princeton, NJ

- Activities: Computer & Robotics Club (President), HackPHS (Organizer of Inaugural Event, Workshop Presenter), *The Tower* (Online Co-editor)
- Awards: Computer Science Senior Award, Gold Key Award for Meritorious Service (5% of Junior class)

## EXPERIENCE

---

### Airbnb

*Software Engineer Intern - Cancelled due to COVID-19*

Cancelled due to COVID-19 - Summer 2020  
San Francisco, CA

### Airbnb

*Software Engineer Intern - Payments*

June 2019 - August 2019  
San Francisco, CA

- Worked on Airbnb's Java based incentive (e.g. coupon, credit, cash) issuance service which has the goal of replacing the fragmented BU-owned incentive ecosystem
- Developed budget management systems for the incentive issuance service to provide safety measures to protect against costly mistakes
- Integrated budget management into the incentive program configuration web app using React, TypeScript, Redux
- Wrote Ruby scripts for schema migrations and budget alert email templating
- Tracked usage, performance, and error rates with Datadog

### Princeton University Computer Science Department

*COS 217 Undergraduate Grader*

September 2018 - January 2019  
Princeton, NJ

### Rutgers WINLAB (Wireless Information Network Laboratory)

*Summer Intern*

June 2017 - August 2017  
North Brunswick, NJ

- Augmented the safety and functionality of a bicycle with an app and wireless connected sensors, lights, and lock
- Controlled system over Bluetooth LE from Android app by implementing a GATT server on a Raspberry Pi

## PROJECTS

---

### Strobr Scope

*iOS App, Swift, Camera API*

September 2017  
PennApps XVI

- iOS app designed to estimate illumination or rotational frequency of objects by varying the camera's frame rate in a similar way to how a stroboscope estimates rotational frequency using flashing light
- Available on the App Store at [lachm.com/strobr](http://lachm.com/strobr) or on GitHub at [github.com/lachm/strobr](https://github.com/lachm/strobr)
- Ranked among top 30 teams out of 150 teams

### SciBowlBuzzer.com

*Web App, Python, Flask, WebSockets*

May 2017  
StuyHacks 2017

- Web app designed to replace traditional physical Science Bowl buzzer systems
- Question reader manages the game from a dashboard while players buzz in through a mobile oriented page
- Hosted with Heroku at [SciBowlBuzzer.com](http://SciBowlBuzzer.com) and available on GitHub at [github.com/lachm/SciBowlBuzzer](https://github.com/lachm/SciBowlBuzzer)

## TECHNICAL STRENGTHS

---

### Programming Languages

Python, Java, C, JavaScript, TypeScript, Swift, MIPS, x86

### Markup & Style

LaTeX, HTML, CSS, Jekyll

### Tools

Git, GitHub, Slack, bash, Kubernetes

### Technologies

Flask, Django, React, Redux, Thrift, iOS SDK, Chrome Extensions