

Lachlan McCarty

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EDUCATION

Princeton University

Bachelor's of Science in Engineering, Computer Science
GPA: 3.84, Departmental GPA: 4.00

May 2022
Princeton, NJ

- Relevant Coursework: 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, Robotics Club, HackPrinceton (Development), 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 Engineering 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 or on GitHub at 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 and available on GitHub at 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