Lachlan McCarty

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EDUCATION

Princeton University May 2022
Bachelor's of Science in Engineering, Computer Science *Princeton, NJ*
GPA: 3.81, Departmental GPA: 3.93

· Relevant Coursework: Information Security, Operating Systems, Algorithms and Data Structures, Reasoning About Computation, Probability, Quantitative Social Science, Linear Algebra, Vector Calculus, Economics & Computing, Machine Translation, Computer Architecture (dual-enrollment), Programming Systems (dual-enrollment)
· Activities: ACM Workshops Chair, HackPrinceton (Development Subteam Head), USG Committee on Student Housing

Princeton High School June 2018
GPA: 3.93, Weighted GPA: 4.60 *Princeton, NJ*

EXPERIENCE

Airbnb (Cancelled due to COVID-19) Originally Summer 2020
Software Engineer Intern *San Francisco, CA*

Airbnb June 2019 - August 2019
Software Engineer Intern - Payments *San Francisco, CA*

· Worked in Java on the incentive (e.g. coupon, credit, cash) issuance service, designed as the service-oriented archiecture replacement for a fragmented incentive ecosystem
· Developed budget management and other safety/security features into the incentive issuance service to protect against costly mistakes or programmer error
· Integrated budget management into the incentive program configuration web app using React, TypeScript, Redux
· Migrated database schemas and crafted budget alert email templates using Ruby
· Tracked usage, performance, and error rates with Datadog

Princeton University Computer Science Department September 2018 - January 2019
COS 217 Undergraduate Grader *Princeton, NJ*

Rutgers WINLAB (Wireless Information Network Laboratory) June 2017 - August 2017
Summer Intern *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 September 2017
iOS App, Swift, Camera API *PennApps XVI*

· iOS app used to estimate an object's rate of rotation by varying the camera's frame rate until the object appears motionless
· Operates on the same principle as light flashing stroboscopes used in industrial and research settings
· 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 at PennApps XVI

SciBowlBuzzer.com May 2017
Web App, Python, Flask, WebSockets *StuyHacks 2017*

· Designed to replace analog Science Bowl buzzer systems with a mobile web app
· The moderator manages buzzing and scoring from a dashboard while players buzz in using SciBowlBuzzer on their phones
· Hosted with Heroku at **SciBowlBuzzer.com** and available on GitHub at **github.com/lachm/SciBowlBuzzer**

TECHNICAL STRENGTHS

Skills	Back End, Full Stack, Web Scraping, Statistics
Programming Languages	Python, Java, C, JavaScript, R, Swift, Go, MIPS, x86
Tools	Git, GitHub, Slack, bash, Kubernetes
Markup & Style	HTML, CSS, LaTeX, Jekyll
Technologies	Flask, Django, React, Redux, Thrift, iOS SDK, Chrome Extensions