

Lachlan McCarty

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EDUCATION

Princeton University

Bachelor's of Science in Engineering, Computer Science
GPA: 3.84, Departmental GPA: 3.95

May 2022

Princeton, NJ

- 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

GPA: 3.93, Weighted GPA: 4.60

June 2018

Princeton, NJ

EXPERIENCE

Shuffle

Software Engineering Intern

June 2020 - August 2020

Remote

- Shuffle (**getshuffle.app**) is a podcast sharing and discovery platform centered around short digestible podcast highlights
- Spearheaded web-based internal tool for curating user feeds, managing the beta waitlist, monitoring the podcast audio transcription pipeline, and configuring automatic transcription for popular shows using React and TypeScript
- Facilitated product-wide database migration from Firestore (NoSQL) to PostgreSQL with an idempotent data importing system and dual write/read tooling for a smooth transition
- Collaborated with frontend engineers to deliver features such as social loop notifications, following, comment liking

Airbnb

Software Engineering Intern - Payments

June 2019 - August 2019

San Francisco, CA

- Worked in Java on the incentive (e.g. coupon, credit, cash) issuance service, designed as the service-oriented architecture 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

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

pinggo

Go, Goroutine, WaitGroup, ICMP, CLI

May 2020

- Full implementation of the ping network diagnostic tool in Go. Available on GitHub at github.com/lachm/pinggo

SciBowlBuzzer.com

Web App, Python, Flask, WebSockets

May 2017

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

Backend, Full Stack, Web Scraping, Statistics

Programming Languages

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

Tools

Git, GitHub, Slack, bash, Docker, Kubernetes

Technologies

Flask, Django, React, Redux, PostgreSQL, Redis, Thrift, Chrome Extension SDK

Markup & Style

HTML, CSS, L^AT_EX, Jekyll