Jack M. Greenberg

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Education

Cornell University - Expected graduation 2023

Selected courses: Object Oriented Programming and Data Structures, Data Structures and Functional Programming, Introduction to Analysis of Algorithms (current), Programming Languages and Logics (current), Digital Logic and Computer Organization, Multivariable Calculus, Linear Algebra, Discrete Structures.

Employment

Part-time Software Developer at Outland Analytics, June 2017 - Present

- Was the first employee.
- Currently write and maintain backend software, coordinating several servers and cloud services.
- Also advise on technical decisions.
- Previously created demo software for backend and embedded devices.

Software Engineering Intern at Solid State Scientific Corporation, June 2020 - August 2020

- Worked in a small team to migrate parts of the US Air Force's weather infrastructure to AWS.
- Used AWS Cloud Formation to build and deploy systems that are currently at work ingesting weather data and making it available to various research projects.
- Worked in depth on EC2 configuration and scripting.
- Created API design proposal to abstract away proprietary software while adding functionality.

Programmer at the Buckler Lab at Cornell, July 2018 - October 2018, July 2019 - August 2019

- Began implementing a field phenotype collection app, first using Kotlin, and later Google's Flutter framework.
- Designed software to integrate into a cohesive ecosystem of tools for plant breeders.
- Operated and maintained autonomous data collection robots.
- Wrote miscellaneous software to aid researchers.

Extracurricular Activities

Cornell AppDev, 2019 - present

- Backend developer working on an app to replace iClickers for classroom polls on a sizable team practicing industry standards for development and providing education for the larger community.

Code Red Robotics, FIRST Robotics Competition Team 639, 2015 - 2019

- Head of programming, leading a small team of high school students.
- Implemented control systems to deal with real world conditions, both autonomously and with human direction.
- Coordinated with mechanical and electrical teams to build a capable robot.

Chromebook Tech Club, 2015 - 2019

- Founding member, worked with district IT to coordinate student-provided repairs and technical support for Chromebooks issued to all students by my high school.

Skills

- Selected programming languages: Kotlin, OCaml, Rust, Java, JS/NodeJS, Dart, Python
- Experienced with software development for servers, desktop, and mobile, as well as integrating with Google Cloud Platform, AWS, and IBM cloud.
- Software: Linux, Git version control, IntelliJ IDEA family of IDEs, much more
- Very comfortable with text based software.