Carter Ellison

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EDUCATION

Cornell University, College of Arts & Sciences, Ithaca, NY — Expected May 2022
Bachelor of Arts, Computer Science — GPA: 3.43

RELEVANT COURSEWORK

- Object-Oriented Programming & Data Structures (Java)
- Artificial Intelligence
- Operating Systems
- Linear Algebra
- Functional Programming
- Natural Language Processing

TECHNICAL INTERNSHIPS

Fidelity Investments — Remote Internship
Full Stack Software Engineer Intern — June 2021 – August 2021
- Collaborated with a team to revamp a QA website using Angular JS and SQL, building out new pages and charts
- Optimized a Java Hikari multi-threaded test engine resulting in test running times up to 3.5x faster

Jasper Financial — Remote Internship
Full Stack Software Engineer Intern — June 2020 – August 2020
- Developed a React App that allows customers to apply for a loan preapproval
- Integrated front-end with DynamoDB NoSQL database using AWS Lambda and Node.js
- Wrote Python code using the Alloy API to verify customer identity by analyzing fraud reports
- Created a WordPress plugin using PHP that allows a React app to be embedded in the website

Portatech — Rancho Santa Margarita, CA
Software Engineer Intern — June 2019 – August 2019
- Developed a GUI using Java that allowed employees to quickly design and print out custom instruction sheets for customers on how to test and assemble their computers
- Optimized GoogleAds resulting in an increase in the conversion rate of 10% and the click through rate of 8%

ADDITIONAL EXPERIENCE

Aquaculture Project Team — Ithaca, NY
Software Team Lead — February 2020 – Present
- Developed preprocessing algorithms in Python that stripped camera footage into individual frames to be used as input into a machine learning model for assessing the population health of aquaculture fish tanks
- Lead a team focused on development of a machine learning model to optimize feed quantities in tanks

ECaFT Tech Subteam — Ithaca, NY
Software Engineer — September 2019 – September 2020
- Built out a front-end interface for a queue management system to reduce lines at the annual engineering career fair
- Managed Firebase database for the career fair app, ensuring that current employer attendance was up to date

Computer Science Tutor — Remote
Self-Employed — June 2017 – Present
- Teach middle school through college students: web development, object-oriented programing, ML, etc

Student Management Corporation — Ithaca, NY
Director on Board of Directors — November 2019 – Present
- Advise the financial activities of the company that manages dining for the majority of Cornell Greek Life
- Vote on policies that managed the company's multimillion dollar budget

PERSONAL PROJECTS

Phishing Website Detector
- Wrote a machine learning program in Python that distinguishes between legitimate websites and phishing pages
- Achieved 98.4% accuracy using a Random Forest classifier on 48 features across a dataset of 10,000 websites

Stock Trading Game Website
- Created a website that allowed users to buy and sell stocks with fake money using Python, JavaScript, and SQL
- Queried stock information from Yahoo stocks in real time to track changes in their portfolio's value

SPECIAL SKILLS

Programming Languages: Java (Expert), Python (Proficient), JavaScript (Proficient), SQL (Proficient), OCaml (Proficient), PHP (Proficient), C (Proficient), C++ (Proficient)
Frameworks: React, Node.js, Flask, Angular JS, Bootstrap