KELLY FAM

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EDUCATION

Cornell University College of Arts and Sciences, Ithaca, NY   May 2020 (Expected)
Bachelor of Arts in Computer Science
GPA: 3.4

Thomas R. Proctor High School Utica, NY   Graduated June 2016
Class Rank: 1/750; GPA: 4.0/4.0

SKILLS

Notable Coursework

Operating Systems ● Introduction to Rapid Prototyping ● Language and Information Processing ● Introduction to Analysis of Algorithms ● Foundations of Artificial Intelligence ● Object-Oriented Programming and Data Structures ● Computer System Organization and Programming ● Data Structures and Functional Programming ● Introduction to IOS Development ● Intermediate Design and Programming for the Web ● Data-Driven Web Applications ● Principles of Backend Engineering ● Trends in Web Development

Languages/Technologies

JavaScript (Vanilla / Typescript / Express.js / React) ● Python ● Java ● HTML ● CSS Preprocessors ● SQL ● PHP ● C++ ● C ● web server software (Apache / Nginx) ● Photoshop

WORK EXPERIENCE

***Frontend Software Engineering Intern* @ Squarespace**   June 2019 - Aug 2019
- Implemented customizable system pages (404, Search, Lock Screen) into upcoming version with JavaScript, LESS, and JSONT
- Refactored and optimized GET requests to Search API for dynamic generation
- Worked with designers and other teams to collaborate on the architecture of the System Pages API

***Air Force Research Lab Intern* @ Assured Information Security**   May 2018 - Aug 2018
- Built and hardened network infrastructure to fend against exploitation and infiltration techniques in a cyber hack-fest
- Worked in a team of 6 to design and implement a graphic user interface that displayed network topologies needed to support Red Team mission operation with Python and PyQt
- Solved a series of graduate level mission oriented problems designed to span the cyber-attack lifecycle using network reconnaissance, penetration testing, and bypassing defense in depth

Research Intern under Senior Scientist, Kamal Jabbour* @ *Air Force Research Lab   May 2017 - Aug 2017
- Researched the restructuring of the GPS Command and Control using blockchains and created table top demonstration with JavaScript (Google Maps API) and Python backend
- Wrote to the Air Force Vice Chief of Staff about blockchains' applicability in the Air Force and received follow-up request for specific blockchains technology potential use to reshape security measures within the Air Force
- Transitioned a scoring system web application from .NET to .NET Core using C#

***Undergraduate Teaching Assistant for CS 3300: Data-Driven Web Applications* @ Cornell University Department of Computer Science**   January 2019 - Present
- Hold weekly 2-hour consulting sessions to provide individual air to students on projects and course concepts
- Work with course staff to grade exams and individual student projects

SCHOOL PROJECTS

***Frontend Developer* for Pokemon Team Recommendation System**   January 2019 - May 2019
- Designed and built a system that uses cosine similarity to generate the *best* Pokemon team based on play style, preferred Pokemon, and Pokemon characteristics with JSON data and web scraped data from real online Pokemon battle replays

***Web Development Lead* for Thread Magazine Website Launch**   September 2018 - May 2019
- Managed a team of developers to redesign Cornell's only fashion publication for the web
- Performed full stack development with Django, SQLite, and Javascript

OTHER EXTRACURRICULAR ACTIVITIES: alpha Kappa Delta Phi Sorority, Inc.*,* Cornell Medium Design Collective*,* Theta Tau Engineering Fraternity