

Cameron Hudson

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Summary

- Software Engineering master's student seeking summer 2019 internship.
- Coursework and personal projects involving full-stack web applications and analytics.
- Strives for maximum performance by writing code amenable to parallelization.

Academic Projects

- Emergency Social Network** Carnegie Mellon University
Fundamentals of Software Engineering Sep 2018 - Dec 2018
- Addressed antiquated disaster response by producing mobile web app with MongoDB and Angular 7.
 - Enabled fulfillment of basic needs by building Craigslist-style listing system for shelter, water, food, etc.
 - Employed object-oriented design patterns and test-driven development to achieve high code quality.
- Architecture Lab** Carnegie Mellon University
Fundamentals of Computer Systems Oct 2018
- Gained understanding of hardware-software interaction and implications for efficient code design.
 - Optimized C programs with Gem5 by identifying slow assembly code and refactoring for efficiency.

Personal Projects

- Algorithms and Data Structures** Coursera
Stanford University Feb 2018 - Apr 2018
- Implemented classic divide-and-conquer, sorting, searching, and randomization algorithms in Java.
 - Cultivated knowledge of data structures while expressing BFS, DFS, and shortest path algorithms.
- Day Trading Web App for Eve Online** Jan 2018 - Mar 2018
- Constructed web app from Laravel and MySQL to identify lucrative commodity trade opportunities.
 - Authenticated with game API, processed market data, and multiplied wealth by 7x over 3 months.

Professional Experience

- Engineer 2** Princeton, NJ
Axens (Petroleum Desulfurization) Jul 2016 - May 2017
- Automated pressure containment calculations with Visual Basic, improving safety and saving manhours.
- Engineer 2** Hampton Township, NJ
Amec Foster Wheeler (Engineering Contractor) Jan 2013 - Mar 2016
- Leveraged Visual Basic to assemble and format 120-sheet Excel file, permitting on-time delivery to client.

Education

- MS, Software Engineering, 3.45 GPA** Mountain View, CA
Carnegie Mellon University, Silicon Valley Aug 2018 - Dec 2019
- BS, Chemical & Biomolecular Engineering, 3.39 GPA** Baltimore, MD
Johns Hopkins University Sep 2008 - May 2012

Skills and Interests

- | Languages | Frameworks | Databases | Other Interests |
|---------------------|--------------------|----------------|---------------------|
| C, JavaScript, Java | Angular 7, Laravel | MySQL, MongoDB | Hiking, Board Games |

Certifications

- NCEES Engineer-In-Training Nov 2017 - present
ASQ Six Sigma Green Belt Oct 2017 - present