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.

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