Cameron Hudson

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Summary

Software Engineering master's student seeking Summer 2019 internship in web/software development. Passionate about software-driven problem solving. Broad interest and experience spanning full-stack web applications down to microcontrollers and sensors.

Education

MS, Software Engineering   Mountain View, CA
Carnegie Mellon University, Silicon Valley   Aug 2018 - Dec 2019

- Foundations of Software Engineering: Best practices of team collaboration and development.
- Foundations of Computer Systems: Computer architecture and its interaction with software.
- Mobile Hardware: Self-directed projects involving microcontroller-based hardware.

BS, Chemical and Biomolecular Engineering   Baltimore, MD
Johns Hopkins University   Sep 2008 - May 2012

Academic Projects

- Built web app for emergency communication using object-oriented analysis, design, and testing.
- Gained understanding of software-hardware interaction during projects in C and x86_64 assembly.
- Constructed full-stack chatroom web app with MongoDB database and Angular client interface.

Skills and Interests

Programming Languages	**Frameworks**	**Simulators**
C, JavaScript, Java, PHP	Node.js, Angular, Laravel	PRO/II, ProMax, KG Tower
Markup Languages	**Databases**	**Other Interests**
HTML, CSS, LaTeX	MySQL, MongoDB	SciFi, Hiking, Board Games

Professional Experience

Process Engineer 2   Princeton, NJ
Axens (Petroleum Desulfurization)   Jul 2016 - May 2017

- Enhanced Axens' proprietary design software, reducing man-hour costs for all future projects.
- Implemented Axens's design practices while performing Basic Engineering.
- Simulated sulfur treatment process with PRO/II and calculated equipment design parameters.

Process Engineer 1   Hampton Township, NJ
Amec Foster Wheeler (Engineering Contractor)   Jan 2013 - Mar 2016

- Led team of 3 to complete Front-End Engineering of customer's requirements on schedule.
- Represented company at HAZOP/LOPA safety reviews of Raw Water and Steam Generation units.
- Leveraged Visual Basic to compute the Heat and Material Balances (HMBs) for equipment design.

Certifications

- Nov 2017: National Council of Examiners for Engineering and Surveying, Engineer-In-Training
- Oct 2017: American Society for Quality, Six Sigma Green Belt