

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
- Linear Algebra: Linear regression, eigenvectors and eigenvalues, orthogonality.
 - Differential Equations: Laplace transforms, first and second-order equation exact solutions.
 - Calculus 3: Multivariate calculus. Gradients, integrals, optimization subject to constraints.

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