

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

- Emergency Social Network: Built web app using object-oriented analysis, design, and testing.
- Computer Systems Labs: Optimized C programs based on their resulting x86_64 assembly code.
- Chatroom App: Constructed web app from MEAN stack (MongoDB, Express.js, Angular 4, Node.js).

Skills and Interests

Programming Languages	Frameworks	Tools
C, JavaScript, Java, PHP	Node.js, Angular 4, Laravel	Bootstrap, Git, CircleCI
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.
 - 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