

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

Carnegie Mellon University, Silicon Valley

Mountain View, CA

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

Johns Hopkins University

Baltimore, MD

Sep 2008 - May 2012

- Linear Algebra: Matrix algebra. Linear regression, eigenvectors and eigenvalues, orthogonality.
- Differential Equations: Laplace transforms, exact solutions to first- and second-order equations.
- 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

C, JavaScript, Java, PHP

Frameworks

Node.js, Angular 4, Laravel

Tools

Bootstrap, Git, CircleCI

Markup Languages

HTML, CSS, \LaTeX

Databases

MySQL, MongoDB

Other Interests

SciFi, Hiking, Board Games

Professional Experience

Process Engineer 2

Axens (Petroleum Desulfurization)

Princeton, NJ

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

Amec Foster Wheeler (Engineering Contractor)

Hampton Township, NJ

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