






# 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

<b>MS, Software Engineering</b>	Mountain View, CA
Carnegie Mellon University, Silicon Valley	Aug 2018 - Dec 2019
<ul style="list-style-type: none"><li>• Foundations of Software Engineering: Best practices of team collaboration and development.</li><li>• Foundations of Computer Systems: Computer architecture and its interaction with software.</li><li>• Mobile Hardware: Self-directed projects involving microcontroller-based hardware.</li></ul>	
<b>BS, Chemical and Biomolecular Engineering</b>	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 x86\_64 assembly.
- Constructed full-stack chatroom web app with MongoDB database and Angular client interface.

## Skills and Interests

<b>Programming Languages</b>	<b>Frameworks</b>	<b>Simulators</b>
C, JavaScript, Java, PHP	Node.js, Angular, Laravel	PRO/II, ProMax, KG Tower
<b>Markup Languages</b>	<b>Databases</b>	<b>Other Interests</b>
HTML, CSS, $\text{\LaTeX}$	MySQL, MongoDB	SciFi, Hiking, Board Games

## Professional Experience

<b>Process Engineer 2</b>	Princeton, NJ
Axens (Petroleum Desulfurization)	Jul 2016 - May 2017
<ul style="list-style-type: none"><li>• Enhanced Axens' proprietary design software, reducing man-hour costs for all future projects.</li><li>• Implemented Axens's design practices while performing Basic Engineering.</li><li>• Simulated sulfur treatment process with PRO/II and calculated equipment design parameters.</li></ul>	
<b>Process Engineer 1</b>	Hampton Township, NJ
Amec Foster Wheeler (Engineering Contractor)	Jan 2013 - Mar 2016
<ul style="list-style-type: none"><li>• Led team of 3 to complete Front-End Engineering of customer's requirements on schedule.</li><li>• Represented company at HAZOP/LOPA safety reviews of Raw Water and Steam Generation units.</li><li>• Leveraged Visual Basic to compute the Heat and Material Balances (HMBs) for equipment design.</li></ul>	

## Certifications

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