

# Cameron Hudson

MS Software Engineering  
Carnegie Mellon University

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## Summary

- └ Seeking full-time position in DevOps or back-end development. Available January 2020.
- └ Experience with full-stack web development, Docker containers, Kubernetes, and Apache Kafka.
- └ Employs best practices of object-oriented design, including design patterns and SOLID principles.
- └ Exercises test-driven development and agile software development practices.

## Professional Experience

### Software Engineering Intern

SFO Airport, Information Technology and Telecommunications

San Francisco, CA

Jun 2019 - Aug 2019

- └ Supported initial rollout of mobile app backend on AWS Elastic Kubernetes Service.
- └ Developed on Kubernetes in DevOps style, creating Docker images and Kubernetes resources as necessary.
- └ Wrote multithreaded acceptance test suite for invocation during continuous integration and deployment.
- └ Configured Docker images for Kafka Connect, Schema Registry, Postgres to persist Kafka streams to storage.

*MS in Software Engineering begins*

### Chemical Process Engineer 2

Axens North America

Princeton, NJ

Jul 2016 - May 2017

- └ Automated pressure containment calculations with Visual Basic, improving safety and saving manhours.

### Chemical Process Engineer 1

Amec Foster Wheeler

Hampton Township, NJ

Jan 2013 - Mar 2016

- └ Leveraged Visual Basic to assemble and format 120-sheet Excel file, permitting on-time delivery to client.

## Academic Experience

### Teaching Assistant

Foundations of Software Engineering, Carnegie Mellon University

Mountain View, CA

Sep 2019 - Dec 2019

- └ Mentored 3 teams of 4-5 students on their semester-long journeys to produce full-stack web applications.
- └ Met weekly with each team to discuss iteration progress, observe product demos, and provide feedback.
- └ Held interactive presentation sessions on tools and practices essential to success in the industry.

### Design Patterns Web Applications

Software Architecture and Design, Carnegie Mellon University

Mountain View, CA

Jan 2019 - May 2019

- └ Studied the 23 canonical design patterns by implementing them in Java with real-world examples.
- └ Presented assignments, including class diagrams, code, and results, via user-friendly Java Spring web apps.
- └ Applied design patterns during team project to create an online store from React and Java Play Framework.

## Education

### MS, Software Engineering, 3.45 GPA

Carnegie Mellon University, Silicon Valley

Mountain View, CA

Aug 2018 - May 2020

### BS, Chemical & Biomolecular Engineering, 3.39 GPA

Johns Hopkins University

Baltimore, MD

Sep 2008 - May 2012