

# 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.
- └ Employs best practices of object-oriented design, including design patterns and SOLID principles.
- └ Exercises agile software development practices and test-driven development.
- └ Experience with full-stack web development, Docker containers, and cloud deployment on Kubernetes.

## 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 regressions tests in Python 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 Projects

### 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 drawing class diagrams and implementing them in Java.
- └ Presented resulting diagrams and code output in user-friendly Spring web application.
- └ Applied design patterns during team project to create an online store from React and Java Play Framework.

### Emergency Social Network

Fundamentals of Software Engineering, Carnegie Mellon University

Mountain View, CA

Sep 2018 - Dec 2018

- └ Addressed antiquated disaster response by producing Angular 7 web app for citizens in distress.
- └ Employed object-oriented design principles and test-driven development to achieve high code quality.
- └ Designed and implemented RESTful APIs connected to MongoDB through a NodeJS backend.

## Education

### MS, Software Engineering, 3.45 GPA

Carnegie Mellon University, Silicon Valley

Mountain View, CA

Aug 2018 - Dec 2019

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

Johns Hopkins University

Baltimore, MD

Sep 2008 - May 2012