

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