

# Cameron Hudson

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## Summary

- Software Engineering master's student seeking summer 2019 internship.
- Employs best practices of object-oriented design, including design patterns and SOLID principles.
- Applies agile software development practices and test-driven development to academic group projects.

## Academic Projects

### Design Patterns Web Application

Carnegie Mellon University

Software Architecture and Design

Jan 2019 - May 2019

- Realized the 23 canonical design patterns by drawing class diagrams and implementing them in Java.
- Presented class diagrams and code output in user-friendly Java Spring MVC web application.

### Emergency Social Network

Carnegie Mellon University

Fundamentals of Software Engineering

Sep 2018 - Dec 2018

- Addressed antiquated disaster response by producing Angular 7 mobile web app for citizens in distress.
- Enabled fulfillment of basic needs by building Craigslist-style listing system for shelter, water, food, etc.
- Employed object-oriented design principles and test-driven development to achieve high code quality.

## Personal Projects

### Bayesian Trading Add-On for Elder Scrolls Online

Feb 2018 - Mar 2018

- Developed add-on in Lua to eliminate inventory management tedium by automating loot liquidation.
- Using game data for Bayesian prior, computed the maximum a posteriori value of each item.
- Rocketed to #3 in terms of trade revenue within guild, increased time for gameplay with wife.

### Day Trading Web App for Eve Online

Jan 2018 - Mar 2018

- Constructed web app from Laravel and MySQL to identify lucrative commodity trade opportunities.
- Authenticated with game API, processed market data, and multiplied wealth by 7x over 3 months.

## Professional Experience

### Engineer 2

Princeton, NJ

Axens (Petroleum Desulfurization)

Jul 2016 - May 2017

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

### Engineer 2

Hampton Township, NJ

Amec Foster Wheeler (Engineering Contractor)

Jan 2013 - Mar 2016

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

## Education

### MS, Software Engineering, 3.45 GPA

Mountain View, CA

Carnegie Mellon University, Silicon Valley

Aug 2018 - Dec 2019

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

Baltimore, MD

Johns Hopkins University

Sep 2008 - May 2012

## Skills and Interests

### Languages

Java, C, JavaScript

### Frameworks

Angular 7, Spring MVC, Laravel

### Databases

MySQL, MongoDB

## Certifications

NCEES Engineer-In-Training

Nov 2017 - present

ASQ Six Sigma Green Belt

Oct 2017 - present