

Cameron Hudson

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Summary

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

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 | Frameworks | Databases |
|---------------------|--------------------------------|----------------|
| Java, C, JavaScript | Angular 7, Spring MVC, Laravel | MySQL, MongoDB |

Certifications

- NCEES Engineer-In-Training Nov 2017 - present
ASQ Six Sigma Green Belt Oct 2017 - present