

Cameron Hudson

 CameronHudson8@gmail.com  484-888-0588  Mountain View, CA
 CameronHudson.info  linkedin.com/in/CameronHudson8  github.com/CameronHudson8

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.

Academic Projects

- | | |
|--|----------------------------|
| Computer Systems Projects | Carnegie Mellon University |
| Fundamentals of Computer Systems | Sep 2019 - Dec 2018 |
| <ul style="list-style-type: none">• Gained understanding of hardware-software interaction in C, and implications for efficient code design.• Architecture Lab: Optimized C programs by identifying slow assembly code and refactoring for efficiency.• Malloc Lab: Developed fast and efficient memory management module without leaks, similar to malloc. | |
| Design Patterns Web Application | Carnegie Mellon University |
| Software Architecture and Design | Jan 2019 - May 2019 |
| <ul style="list-style-type: none">• 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. | |

Personal Projects

- | | |
|--|---------------------|
| Bayesian Trading Add-On for Elder Scrolls Online | Feb 2018 - Mar 2018 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• 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 |