

# David P. Cusatis

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## Education

### Bachelor of Science in Computer Science

Minor in Mathematics

The Pennsylvania State University

University Park, PA

## Work Experience

### IBM

Austin, TX

August 2015 - Present

Software Engineer

- Assessed networking infrastructure to ensure support for Open Virtual Network (OVN) IPv6 routing. Produced a report detailing configurations, issues discovered for the technical lead.
- Built a dashboard using Python, OpenStack client libraries, and Angularjs for the OpenStack Zaqr project. a messaging queue. The dashboard was used to manage queue subscriptions. These changes were accepted upstream, see Open Source Contributions.
- Implemented a Role Based Access Control (RBAC) system for Blue Box, IBM's private cloud. Wrote python modules and middleware for filtering requests and customizing OpenStack Horizon to support RBAC, see Open Source Contributions.
- Customized RBAC policy files to support customer roles of differing access levels.
- Wrote Ansible playbooks to ensure enterprise security compliance.

### F.H. Consulting

March 2015 – August 2015

Remote

Software Engineer

- Bootstrapped startup
- Built prototypes and full featured applications to support customer needs in Java and Python
- Responsible for implementing full stack - MySQL, Python, Javascript. Integrated unit testing via Python unittest
- Worked with agile methodologies and distributed teams

### Always Prepped

Bethesda, MD

May 2014 – August 2014

Software Engineer

- Education tech start up with a focus on saving educators time, acquired in 2014
- Modernized the existing codebase to use Spring Framework, AngularJS, and JOOQ
- Designed and implemented an admin dashboard to display school data at a district level, which dramatically increased application performance
- Worked with the software architect on the initial design of the application
- Assisted with standardization of software development practices, specifically ensuring that all code checked in was subject to peer and automated review.

### IBM

San Ramon, CA

May 2013 – December 2013

Software Engineer Intern

- Developed Selenium-based automation framework used for Quality Assurance regression testing
- Utilized automation framework to develop regression test scripts
- Reported defects and communicated with both QA and developer teams
- Configured and deployed virtual machines for remote automation testing
- Worked with a distributed, Agile team

## Skills & Tools

Python	AngularJS	Django	OpenStack	Security
MySQL	JavaScript	OpenGL	Linux	Ansible
HTML5	Bootstrap	Java	Networking	Golang

## Open Source Contributions

- Upstream OpenStack patches for OpenStack Zaar and Horizon:  
<https://review.openstack.org/#/q/owner:%22David+Cusatis+%253Cdcusati%2540us.ibm.com%253E%22+status:merged>
- RBAC and private cloud related code can be found here: <https://github.com/davidcusatis?tab=activity>

## Projects

### Game Programming

July 2015 – Present

Software Engineer

- Developing a web based, competitive programming multiplayer game
- Responsible for architecture, backend, frontend, middleware, UX for the web app
- Working with another developer on a custom server for simulating users matches
- Using modern technologies including Python, AngularJS, Django framework, Golang, Websockets
- Currently working towards releasing an alpha by end of the year
- Web app code can be found here - <https://github.com/davecusatis/monospace>
- Server code can be found here - <https://github.com/davecusatis/Monoserv>

### App Programming

May 2016 - Present

Software Engineer

- Developing application to automate Esports tournaments at scale with a partner
- Responsible for backend code, interfacing with various APIs, and future front end work
- Using Python, Flask, Challonge API (<http://challonge.com/>)
- Very early in development, working towards automating a local tournament by end of summer 2016
- All code can be found here: <https://github.com/EricCrosson/auTO>