24041 NE 29th ST
Sammamish WA 98074

ISAAC A. JENSEN

(425) 463-7422
isaac.jensen@outlook.com

EMPLOYMENT

Software Engineer, Intern　　　　　**McAfee**　　　　　**Mar. 2020 – Sep. 2020**

mVision ePO CloudSaaS Team

- Built Concourse CI pipelines which automate software delivery process for developers using resources, tasks, and jobs.
- Completed Docker-based metadata collection pipeline with consolidation into emailable HTML report.
- Achieved 100% code coverage building a unittest suite to test APIGateway lambdas, saving team from manually testing
- Integrated foreign teams into unittest suite running inside CI pipelines, allowing them to add tests for their own pipelines.

Student Consultant　　　　　**Hewlett-Packard**　　　　　**Sep. 2020 – June 2021**

- Developed an automated PyTorch neural network data flywheel to improve performance with new data and increasing userbase
- Built/deployed React webapp and tuned for high throughput design space mapping (~100 design iterations/sec).
- Deployed HP's proprietary microfluidic image processing techniques

EDUCATION

Corvallis, OR　　　　　**Oregon State University**　　　　　**Fall 2017 – Spring 2021**

- B.S. in Computer Science, focus: Computer Systems. *GPA: 3.50 (Cum Laude)*
- Undergraduate Coursework: Operating Systems I/II; Web Development; Databases I/II; Analysis of Algorithms; Prog. Lang Funds; Computer Architecture I/II; Cloud App Dev; Physics I/II/III; Calc I/II/III/IV.

TECHNICAL EXPERIENCE

Projects

- **McAfee – Unittest Suite for APIGateway Lambdas** (2020). Used Mocha/Chai assertion libraries to test async JavaScript code with complex promises. Achieved 100% code coverage. Helped foreign teams integrate into my suite, giving them access to my tests and ability to contribute. Docker, *JavaScript, Node.js, AWS APIGateway, HTML/CSS, Mocha JS, Chai Assertions*
- **McAfee – Reporting Pipeline** (2020). Concourse CI pipeline w/ S3 backend which collects backend metadata from artifacts, consolidates into single HTML report containing testing results, version numbers, API hierarchy and more. Solves problem of developers searching through complex environments to find specific data. *AWS, Concourse CI, Python/Bash, YAML (configs), Docker*
- **McAfee – Pull-Request Pipeline** (2020). Team had issues with PRs not being validated when changing pipeline configs, this project validates and provides a Git Check to assure devs that PR is ok to merge. *AWS, Concourse CI, Python/Bash, YAML (configs), Docker*
- **GitHub Issues Dashboard** (2021). Dashboard displaying issues from top 10 most-recent repos. Productivity tool for managing multiple projects' issues. *GraphQL via Apollo, HTML/CSS/JS, GitHub API*

ADDITIONAL EXPERIENCE AND AWARDS

- **Verizon App Challenge – Best in State (2014):** This application lets users take photos of certain pieces of trash and then prompts specific bins to place the trash in. Link to article: https://bit.ly/3qHIUbJ
- **CodeDay Seattle – Best Overall App (2015):** Won 'Best Overall App' at CodeDay Seattle, a 24-hour coding challenge for high school students. Our team made an Android app, 'Arrow', which acts as a compass to walking-distance restaurants.

Languages and Technologies

- Python3, C/C++, HTML/CSS, JavaScript [ES6], Java, SQL
- Docker, MongoDB, GraphQL, AWS [Lambda, APIGateway, S3], Node.js, Concourse CI, Mocha, Chai, Git