Portland OR 97291

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EMPLOYMENT

Software Engineer, Intern **Autodesk** **Summer 2018 - San Francisco**

Recommendation Engine - Cloud Platforms. *Node.js, Express, Python, Docker, lightFM*

- Created a Docker containerized Node.js/Express server that performs content recommendations to users based off of their previous Likes, Comments, and Follows.
- Utilized Machine Learning with Factorization Machines.
- This engine touches countless products, giving users a better online experience.

Software Engineer, Intern **Autodesk** **Summer 2017 - San Francisco**

Form Builder - Manufacturing Data Service. *JavaScript, AngularJS, HTML, JSON Schema*

- Created a property panel that allows form creators to edit a form's field type, force response, help contents, validation options, and form field display logic (hide/show elements based off conditions).
- Eliminated display logic's repetitive precompute time, to once on page load by creating a required elements tracker.
- Implemented validation for entire Form Builder application, enforcing correct user inputs.
- Lead project meetings with colleagues from around the globe.

Software Engineer, Intern **Autodesk** **Summer 2016 - Portland**

Fusion 360 Simulation Assistant. *Python*

- Created a prototype that automatically conducts Finite Element Analysis (FEA) simulations on parts and assemblies in Autodesk's Fusion 360 CAD software.
- Boosts design efficiency by reducing the simulation analyst bottleneck.
- Slashes labor costs by reducing product life cycle time.

Teaching Assistant **Oregon State University** **Fall 2015 – Spring 2016**

- Courses: Foundations of Computer Science I, II & lll. C++, C, Python
- Taught labs and recitations.
- Held one on one demo hours with students

EDUCATION

Corvallis, OR **Oregon State University** **Fall 2014 – December 2018**

- B.S. in Computer Science, *GPA: 3.80*.
- Relevant Elective Coursework: Cloud Development, Artificial Intelligence, Parallel Programming, Compilers, Public Speaking.

TECHNICAL EXPERIENCE

Projects

- **Smart Farm (2018):** Built a Node.js/Express RESTful API that serves as the backend for a Smart Farm. Users can insert sensors in their farms, and get the latest soil, air, and irrigation data.
- **Kora (2018):** Created a voice interface to Autodesk's Fusion 360 design software. This will allow users to execute voice commands such as "rotate design 90 degrees left." *Python, MongoDB*
- **Linux Kernel's SLOB Best-Fit (2017):** Implemented a best-fit algorithm for the Linux kernel's SLOB, and compared its memory fragmentation with the default first-fit algorithm. *C*

ADDITIONAL EXPERIENCE AND AWARDS

- **College of Engineering Leadership Academy:** Attended seminars regarding effective leadership, inclusivity, and career advancement lead by successful industry leaders of Fortune 500 companies.
- **OSU ACM-ICPC Practice Competition:** Earned first place in a team of three at OSU's ACM-ICPC practice coding competition out of 15 teams. *C++, Python*

LANGUAGES AND TECHNOLOGIES

- **Proficient in:** C/C++, JavaScript **Competent in:** Python, HTML **Familiar in:** Java
- AngularJS, Docker, MySQL, MongoDB, Git