ARIKA ARNZEN

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EDUCATION – Graduation in May 2019

Software Engineering Major at Washington State University – GPA: 3.85

Classes of Interest

- Machine Learning – Used different learning algorithms such as linear regression, logistic regression, decision trees, SVM, and Naive Bayes to create models for classifying handwritten numbers in a Python development environment.
- Database Systems – Used pgAdmin with PostgreSQL to manage data for a business review application.

SKILLS

- Implemented EXT2 Filesystem on a virtual floppy disk in C
- Performed exploratory, system, and functional testing using Robot and Python
- Created a PostScript interpreter in Python
- Created a Checkstyle plugin in Java

- Built a static page web server in Go
- App development with C#, Python, and SQL
- Front-end web development and design with React JS, JavaScript, and HTML/CSS
- Back-end web development with Go and Node JS
- Familiar with Java, C++, ML, Assembly, and Racket

WORK EXPERIENCE – 04/2016 to Current

Software Engineering Intern at *Schweitzer Engineering Laboratories Inc.* – Pullman, WA

- Developed a company standard UI component library for reuse using React JS, Webpack, and Jest.
- Implemented a company document management tool using React JS, Redux, and Go.
- Designed and created an avatar generation system in Go for users to have avatars for their accounts, using Prometheus for metrics and error checking.
- Researched and built a company theme component library using Material-UI, React JS, and Rollup.
- Tested software using Jest, Robot, and Python.
- Create Microsoft SharePoint training guides for developers and site owners on how to use SharePoint and how to develop SharePoint application components.

PROJECTS

- **Business Reviews** – Designed and developed a desktop application for users to review businesses by leaving comments, checking old reviews, and connecting with friends. I used C# to build the front-end, Python for parsing a Yelp.com dataset, and PostgreSQL as the DBMS.
- **Book Blog** – Implemented a web application for users to blog about books. I used the Google Books API as my source for book information. I also used React JS, Redux, Express JS, Node JS, and MongoDB.
- **Teacher's Assistant** – Developed an application for students to apply to be TA's for certain classes and for teachers to select a TA. I used Boostrap, jQuery, and SQL Alchemy to communicate with Heroku.
- **Hackathon** – Managed and directed a group of freshman students in creating a web application for the first time. I taught the group at a high level about full-stack web development and introduced them to React JS, JavaScript, HTML, and CSS.

AWARDS AND INVOLVEMENT

- Awarded Software Engineering EECS Outstanding Student Award 2018
- Awarded President's Honor Roll – 2016, 2017, 2018
- President of Association for Computing Machinery for Women 2018
- Recipient of Dean's Scholarship, Cougar Academic Award, and Boeing Endowment for Women Engineers Scholarship
- WSU Hackathon Participant – 2016, 2017, 2018