COLLIN SULLIVAN

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#### **EDUCATION**

##### University of Washington, Seattle, WA

*Bachelor of Science, Computer Science, 2018-2022*

*Costco Diversity Scholar 2018 Cohort | Washington Opportunity Scholar 2018 Cohort | 4x Dean’s List*

#### **SKILLS**

*Languages:* (Proficient)Java, Python;(Familiar) C, C++, SQL, JavaScript, HTML5, CSS, Markdown

*Frameworks/tools/libraries:* Gatsby, React, Git, Apache Spark (via PySpark API), Pandas, Node.js, GraphiQL, Spark

*Data Visualization Tools:* (Proficient)Tableau;(Familiar) Alteryx, D3.js, Seaborn

*Operating Systems:* (Proficient) macOS, Windows, Linux; (Familiar) IOS, Android

#### **EXPERIENCE**

##### **Developer Intern**

*Costco Wholesale, Issaquah, WA, June - September 2022*

##### Developed and updated reports primarily utilizing Python, Oracle SQL Developer, Tableau, and Alteryx, which were used by various departments for sales analytics, freight reports, and financial data.

##### Optimized business analysts' data processing by automating payment and remittance files, reducing manual processing time by 30+ minutes per day for business analysts.

##### Implemented market basket analysis algorithm for E-commerce site, enabling determination of the confidence of items to be purchased, and presented to SVP of Costco E-Commerce using a Tableau story sequence.

##### Improved communication and presentation skills by presenting in team meetings and writing numerous emails to provide updates and receive feedback on projects.

**PROJECTS**

##### **Personal Portfolio Website**

*Personal Project, Winter 2023*

##### Created and deployed a full-stack portfolio website using React, Gatsby, and Node.js

##### Utilized responsive design and third-party libraries such as React-Slick for a visually appealing user interface.

##### Integrated Gitlab’s REST API to allow users to explore my projects without leaving the site.

##### Opportunity to enhance JavaScript skills and learn popular libraries/frameworks like React.js and Node.js.

##### **Massive Open Online Courses (MOOC) Data Science Capstone Research**

*University of Washington, August-December 2022*

* Conducted research identify course design factors affecting student success in MOOCs.
* Found correlations between key course-design factors and student dropout, completion, and survivorship rates through cross-source analysis of publicly available MOOC datasets.
* Contributed to the development of knowledge useful for better designing MOOCs by adhering to key Data-Science processes like Data Wrangling, Operationalization, and Model Validation
* Utilized Python tools such as PySpark API, Seaborn, matplotlib, as well as Tableau for visualizations.
* Created a 12-page research document outlining findings and survivorship models for students.

##### **Full-Stack Campus Pathfinder Application**

*University of Washington, Spring 2022*

* Built a full stack web application utilizing a Java Spark backend and JavaScript frontend.
* Designed and implemented custom pathfinding algorithm compatible with Java Spark backend server.
* Developed custom React components to query Spark server in real-time, showcasing front-end and back-end development skills.