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.