Amman Yusuf

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EDUCATION

Bachelor of Science in Computer Science
University of Calgary · Calgary, AB · 2018 - 2023 · 4.0 GPA (Cumulative)

SKILLS

Languages: Java, Kotlin, C, C++, Haskell, Python, Prolog, PostgreSQL, MySQL, Typescript, CSS, HTML

Tools: Git, Linux/Unix, Windows, AWS, Adobe XD, Java Spring Framework

Course Work: Design and Analysis of Algorithms, Introduction to Software Engineering, Database Management Systems, Principles of Operating Systems, Computer Networks, Introduction to Distributed Algorithms

EXPERIENCE

Software Development Engineer Intern
Amazon Web Services   May 2022 - July 2022, Vancouver, BC
· Developed AWS pipeline infrastructure to automatically gather and analyze statistics from a PostgreSQL database.
· Improved and maintained testable lambda code in Kotlin to efficiently extract 10 GB of database statistics on a schedule.
· Designed SQL queries to collect relevant database metrics, which allowed the team to gain insight in database performance and to plan for future growth.

Data Science/Software Engineer Intern
Oncology Outcomes   May 2021 - Present, Calgary, AB
· Programmed web-based solutions in ASP.NET which integrated R Language machine learning medical models that predicted outcomes based on user input.
· Improved website response time for machine learning analysis performance by 10-fold.
· Analyzed, collected, and extracted 200,000 data entries using the R Language while developing research in information extraction solutions from electronic health records.
· Designed user interface prototypes and wire-frames for medical data representation.

PROJECTS

Canadian Cancer Society Visualization
https://observablehq.com/@ammanyusuf/ccs-2021 · January 2022 - April 2022
· Designed 22 interactive data visualizations in D3 and Python exploring the impact of cancer in Canadian society, helping stakeholders bring about informed decisions on cancer policies.
· Implemented a data cleaning and processing pipeline for Canadian Cancer Statistics data using Python and Tableau.
· Utilized principle component analysis and regression techniques to analyze cleaned data.

WaitLess | Queueing App Prototype
Team Lead | https://github.com/ammanyusuf/WaitLess · September 2020 - December 2020
· Designed a queueing application for University student advising through the use of UX/UI design principles.
· Constructed a high fidelity, fully interactable user interface using Adobe XD.
· Conducted research of end users using IDEO card methods.
· Tested the look and feel of the interface though a Heuristic Evaluation.

Journalr | Journal Web Application
Team Lead | https://github.com/ammanyusuf/Journalr · February 2020 - April 2020
· Developed a platform to manage the interaction between Authors, Reviewers, and Editors of a University journal collection.
· Designed a database schema using MySQL to store user information as well as written journals.
· Learned and utilized Spring Framework to manage the interaction between front-end and back-end development.
· Stylized the web-application with HTML5, CSS, and Bootstrap.