

Amman Yusuf

ammanyusuf85@gmail.com | 403 404 2885 | github.com/ammanyusuf | ammanyusuf.github.io

Education

Bachelor of Science in Computer Science – University of Calgary, 4.0 (Cumulative)

2018 – 2023

Skills

Languages: Java, Kotlin, C, C++, Python, R, PostgreSQL, MySQL, Haskell, Typescript, CSS, HTML, D3

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

Work Experience

Amazon Web Services RDS – Software Engineer Intern

May 2022 – Aug 2022

- Developed AWS pipeline 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 based on a predefined CRON job as a CloudWatch Event.
- Designed SQL queries to collect relevant database metrics, which allowed the team to gain insight in database performance and to plan for future growth.

Oncology Outcomes – Data Science/Software Engineer Intern

May 2021 – Present

- 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 – Python, D3, Tableau [↗](#)

- 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.
- Utilized principle component analysis (PCA) and regression techniques to analyze cleaned data.

Journal Web Application – SpringBoot, MySQL, HTML, CSS [↗](#)

- Developed a platform to manage the interaction between Authors, Reviewers, and Editors of journal.
- Designed a database schema using MySQL to store user information as well as written journals.
- Utilized Spring Framework to manage the interaction between front-end and back-end development.

Traveler Management System – ASP.NET, Postman, MySQL [↗](#)

- Built a traveller management system that deals with tourists finding recommendations as provided by locals.
 - Constructed the database schema to represent the interactions in the MySQL database.
 - Connected the logic of the application and the database with the ASP.NET framework. Tested project endpoints with Postman.
-

Publications

Used the R Language to extract data from medical documents, data was used in this publication

”Prevalence, Treatment Patterns, and Outcomes of Individuals with EGFR...” – Current Oncology – Sept 2022 [↗](#)