

# Amman Yusuf

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## 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

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## 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 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.

**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.
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## Projects

**Canadian Cancer Society Visualization** – Python, D3, Tableau [!\[\]\(3342c215b2a8b663596a81468d5dc314\_img.jpg\)](#)

- 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.

**WaitLess Queueing App Prototype** – Adobe XD, HCI, Figma [!\[\]\(1f56542a42e2413e44a2b2023033aa2e\_img.jpg\)](#)

- 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 and tested the look and feel of the interface through a Heuristic Evaluation.

**Journal Web Application** – SpringBoot, MySQL, HTML, CSS [!\[\]\(5a351309c3b87e4420622c1f0e57efc0\_img.jpg\)](#)

- 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.
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## 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 [!\[\]\(4186b6ce3a1c83eabb297c1bfd00309c\_img.jpg\)](#)