

Sufyan Ayaz

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Education

University Of Calgary

Sep 2021 – Present

BSc. Software Engineering (Major)

Calgary, Canada

- Coursework: Full Stack Web Dev, DSA, OOP, Computer Organization, Databases, OS, Embedded/Network Systems
- In-Progress: Software Architecture, Software Design
- Consecutively achieved Jason Lang Scholarship

Udemy

May 2022 – Aug 2022

The Web Developer Bootcamp

Calgary, Canada

Technical Experience

Projects

Airline Reservation System | Java, SQL DB

- With a team, **designed** and **developed** a comprehensive web-based airline reservation system tailored to a single airline company.
- Oversaw the **intricate design phase**, producing a **system analysis** encompassing use-case diagrams, conceptual models, activity diagrams, sequence diagrams, state transition diagrams, and domain diagrams.
- Implemented application using **Java Swing** to create the frontend and **Java** connected to a **SQL database** for the backend.
- **Integrated interfaces** that cater to diverse user roles such as guests, registered users, system administrators, agents, and airline staff.
- Wrote **SQL** scripts for a **relational database** in **MySQL Workbench** to create appropriate databases for the airline reservation system.

Scheduling Application | Java, SQL DB

- Collaborated with a team of 4 to design a **Java** computer application that provides scheduling capabilities to a Wildlife Rescue Center, generating the **most optimal** employee schedule with the tap of a button.
- Implemented a **scheduling algorithm** that accurately analyzes task information within the given database and generates a schedule **more efficient** than supervisors, **reducing 100+ hours** of yearly administrative tasks.
- Used **GUI library** to create an application front-end, **object-oriented Java** to write classes and algorithms, the **Junit library** to **test application components**, and utilized **SQL DBMS** for the database.

Lotion | HTML, CSS, JS (React.js), Terraform, Python, Non-SQL DB, AWS, Netlify

- **Full-stack application**, deployed through Netlify, inspired by the widely used Notion software.
- Allows users to create personal notes and save them, modify them, or delete them at will.
- Utilizes the **react-oauth/google library** to allow every user to sign-in to the application using Google, on any device, and view their personal notes.
- Front-end created using **React.js, HTML, and CSS**, while **Terraform** connects with **AWS** services (DynamoDB, Lambda, IAM, and Cloudwatch) to form the backend.
- In the backend, **DynamoDB** stores information of all notes as a **Non-SQL DB**, and the **Lambda Functions** written in **Python** are used to retrieve/manipulate the information.

The Last Show | HTML, CSS, JS (React.js), Terraform, Non-SQL DB, Python, AWS

- A **full-stack application** that users can use to create and store obituaries.
- Front-end created using **React.js, HTML, and CSS**, while **Terraform** connects with **AWS** services (DynamoDB, Lambda, AWS Polly, Parameter Store, IAM, and Cloudwatch) to form the backend.
- Application uses the **ChatGPT AI** integrated within the **Lambda functions** and **Cloudinary** to write an obituary, which can then be played to the user using **AWS Polly**.
- In the backend, **DynamoDB** stores information of all obituaries as a **Non-SQL DB**, and the **Lambda Functions** written in **Python** are used to retrieve the information.
- **Adaptable structuring** of the application code allows for content to be revised by changing the prompt used in the **AI functionality**, creating a whole new application.

Skills

Technical Skills

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|--------------|---------------|-------------------|-------------------|-------------------|
| - HTML5 | - MySQL DB | - NoSQL DB | - Design Patterns | - C/C++/C# |
| - CSS3 | - Terraform | - Linux OS | - DSA | - Gitlab |
| - JavaScript | - Scrum-Agile | - Windows OS | - Documentation | - Embedded System |
| - React.JS | - Git | - MS Office Suite | - VS Code | - Java |
| - AWS | - Python | | | |

Soft Skills

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|---------------------|----------------|-----------------|
| - Problem Solving | - Teamwork | - Research |
| - Critical Thinking | - Adaptability | - Multi-Tasking |
| - Communication | - Leadership | |