

KUSHANK VIRDI

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Education

University of Victoria

Bachelor of Science in Computer Science

Victoria, BC

Relevant Coursework

Data Structures and Algorithms, Operating Systems, Database Systems, Computer Architecture, Computer Graphics, OOP

Work Experience

Nagarro

Sep. 2024 – Dec. 2024

Software Engineer Intern

Remote, Canada

- Designed a **DynamoDB Schema** by configuring **AWS AppSync** with **GraphQL APIs** and writing mutation, subscription and resolver functions.
- Implemented **batching** by tuning **AWS Lambdas**, updating **TypeScript** and **Terraform**, and adding AWS alerts for **SQS** and **DLQs**, resulting in **30% fewer errors** from unordered asynchronous calls.
- Resolved over **15 backend tickets** across **Java Spring Boot** and **C#** stacks, fixing bugs and improving data flow API, database and frontend layer.

Apptad, Inc

Jun. 2024 – Sep. 2024

Full Stack Developer Intern

Delhi, India

- Built an internal ticketing system with **Angular**, **Node.js**, **MongoDB**, and **Azure SQL Server**, eliminating third-party dependencies and **saving 1000%** in subscription costs.
- Created **dynamic UI components**, including **reactive forms** with validation, and integrated **REST APIs**, improving execution time by **35%** and enhancing system efficiency.
- Enhanced security and automation by deploying **JWT authentication** and automating tests with **Java**, **TestNG**, and **Selenium**, reducing unauthorized access by **25%**, cutting manual efforts by **90%**, and increasing test coverage by **60%**.

BC Pension Corporation

Sep. 2023 – Dec. 2023

Business Systems Analyst

Victoria, BC

- Automated contract renewal in a Power BI app, cutting manual effort by **50%**.
- Created process diagrams and workflows, reducing ambiguities by **30%** and boosting efficiency.
- Resolved **SQL batch errors**, improving data accuracy and reducing error rates by **15%**.

Projects

Railway Management System | Java, AWS S3, Maven

January 2024

- Developed a **Java**-based application employing **OOP** principles and leveraging **data structures** like Lists, Matrices and Maps to implement core functionalities, including user authentication, seat reservations, passenger management, train lookup, and scheduling of arrival and departure times.
- Engineered integration with **AWS S3** buckets to enable scalable and secure storage solutions. Implemented efficient file operations for storing and retrieving user data, booking records, and passenger details using the **AWS SDK for Java**, ensuring data management and cloud scalability.

JP Apex Predator IOS App | SwiftUI, IOS17

November 2023

- Incorporated the **MVC** pattern for clarity and maintainability, incorporating **object-oriented principles** and sophisticated state management to ensure responsive app behavior.
- Leveraged a **JSON decoder** for data modeling, with advanced **sorting algorithms** (alphabetical, by type) to organize data. Utilized properties and computed properties for efficient **state and data management**.

Technical Skills

Languages: Java, Python, Javascript, Typescript, C# C, C++, SQL (Postgres), HTML/CSS, R, Bash

Developer Tools: Git, Docker, Vercel, Firebase, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Technologies/Frameworks: AWS, React, Angular, MongoDB, Node.js, Material-UI, SwiftUI, Salesforce, DevOps

Leadership / Extracurricular

- Played as a **starting 11** on my high school football team.
- Member of Robotics Club, competed in **10+** competitions.
- Part of the **playing 4** on the high school's gaming team, responsible for managing the team, organizing LAN events, and hosting qualifier matches to select players for upcoming competitions.