KUSHANK VIRDI

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Education

University of Victoria Sep. 2021 – Sep. 2025
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*

- Enhanced resilience by configuring **AWS Lambda with TypeScript and Terraform, optimizing SQS and DLQs**, and analyzing CloudWatch logs via Splunk, resulting in **30% fewer** errors and **50% faster** incident response.
- Resolved over **20 backend tickets** across **Java Spring Boot and C#** stacks, improving data flow across **API**, database, and front-end layers, which led to a **25%** latency reduction and **40% fewer** system failures.
- Built a **DynamoDB** schema for messaging with mutations, subscriptions, and resolvers. Used **AWS AppSync and GraphQL APIs** to boost retrieval speed by **25%** and reduce costs by **15%** in an Agile team.

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.
- Designed **REST APIs** to streamline front-end and back-end communication, boosting ticket processing **speed by 40%** and enhanced 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

Coursework Management App | *Angular 17, TypeScript, HTML5, CSS3, Bootstrap, AWS, NGRX* **January 2024**

- Developed front-end applications with **Angular 17** and **TypeScript** for a student coursework platform. Created responsive UI using HTML5, CSS3, and **Bootstrap**, and integrated **APIs** with **NGRX** for state management.
- Built fully functioning components with unit and **e2e tests**, following best practices. Used wireframing tools to brainstorm and refine **UI/UX** and worked independently to ensure reliable, maintainable code.

JP Apex Predator IOS App | *SwiftUI, IOS17* **November 2023**

- Incorporated the **MVC** pattern for clarity and maintainability, incorporating o**bject-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.