

ANGKIT KHADKA

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Education

Sault College

Diploma in Computer Programming — GPA: 3.9

Expected Graduation: April 2025

Toronto, Canada

- Courses: System Design, Operating Systems, Database, Programming Paradigms, Algorithms and Data Structures, Software Development

Projects

SAAS Landing Page | Live Site

ReactJS | TypeScript

- Engineered **Front end (Saas website)**, using **React**, **TypeScript** and **Tailwind**, to comply with app store requirement for publishing the mobile application, leading to an increase in user engagement by **37%**
- Collaborated with a fellow developer using **Git**, managing version control for **5+ major features** and resolving **10+ pull requests**, implementing **branching strategies** to improve team efficiency by **30%** and ensuring consistent code quality across **3+ environments**.

Restaurant Management API | Source Code

TypeScript | NodeJS | Express | MySQL

- Engineered a **RESTful API** using **Node.js** and **Express** to manage **restaurant reservations**, implementing full **CRUD operations** and **database normalization** across **3+ tables** to optimize data storage. Leveraged **Prisma** for seamless database interactions, improving data retrieval efficiency by **25%** and enhancing system functionality to support **100+ concurrent reservations**.
- Integrated **MariaDB** to optimize data storage, resulting in **40% faster data retrieval** and improved overall system performance. Wrote and executed **30+ Jest tests** to ensure data integrity and validate **CRUD operations**, achieving **95% test coverage** and reducing bug rates by **20%**.
- Encrypted sensitive data with **Bcrypt** and secured the **API** with **JWT authentication** with session token and access token, enabling **robust role-based access control** to ensure secure and efficient user authorization.

HR Management System | Source Code

Java | JavaFX | MySQL

- Built an **HR management desktop application** with **JavaFX**, streamlining **employee** and **admin workflows**, reducing manual tasks by **30%** and improving data management efficiency by **40%**. Integrated **MySQL** for data storage and management, enabling **CRUD operations** with **25% faster data retrieval**. Developed **3+ modules** for payroll, attendance, and performance tracking, reducing HR task processing time by **25%**.
- Designed a custom **ORM** for abstracting database operations, improving code maintainability by **20%** and reducing development time. Incorporated a **user-friendly GUI** following the **MVC design pattern**, enabling modularity and enhancing scalability for future feature additions, reducing development time by **15%**.
- Implemented **JUnit tests** for **user login** functionality, including **5+ test cases** for valid and invalid login attempts, ensuring robust validation of user credentials, security measures, and error handling. Achieved **90% test coverage** for authentication logic, improving system reliability and reducing bug rates.

JokeHub | Play Store | Source Code

React Native | TypeScript | Expo

- Built a **React Native mobile app** with **Expo Router**, featuring a database of **10,000+ jokes** and using **Context API** for state management. Released the app for **internal testing** in compliance with Google Play's new requirements, with plans for broader availability following the **14-day testing phase**.
- Released **multiple versions** of the app on the **Google Play Store**, configuring **Expo** and **React Native** for smooth deployment. Created custom app icons and optimized assets for **5+ screen sizes**, continuously improving features based on **100+ user feedbacks** from the testing phase.

Technical Skills

Languages: TypeScript, JavaScript, Java, SQL, HTML5, CSS, Python, F Sharp

Developer Tools: AWS, Postman, Git, Github, Linux, Docker, Jira, NeoVim

Libraries/Frameworks: Express, ReactJS, NextJS, NodeJS, MySQL, Mongoose, Prisma, Tailwind CSS