

# Aaryen DSouza

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## TECHNICAL SKILLS

**Languages:** Java, JavaScript, TypeScript, Python, C, SQL, HTML/CSS  
**Frameworks:** React, Django, Redux, Node.js, Express, WordPress, Material-UI, Bootstrap, Tailwind CSS  
**Databases:** Oracle SQL, PostgreSQL, MySQL, MongoDB, PL/SQL  
**Developer Tools:** Git, GitHub, VS Code, IntelliJ, Postman, Microsoft Office, Firebase, Figma, Canva, Jira  
**Other Skills:** Windows, Linux/Unix (Ubuntu, CentOS), Shell Scripting

## PROFESSIONAL EXPERIENCE

**Software Engineer** | Oracle SQL, MS Excel, Bash/Shell Scripting, Java, JavaScript, Jira  
Vermont Information Processing Jul 2022 – Mar 2024  
Mumbai, India

- Ensured data integrity by conducting data cleaning, preprocessing and validations through Oracle SQL and MS Excel, resolving 95% of data quality issues within 24 hours, and providing detailed analysis reports to stakeholders.
- Reduced issue resolution time by 40% for 100+ customer-reported issues by performing in-depth root cause analysis (RCA) on legacy app server and Oracle database, leading to faster issue identification and customer satisfaction.
- Automated ETL workflows by implementing Bash/Shell scripts, optimizing data workflows, and reducing manual interventions by 20%, which led to improved data onboarding efficiency.

## PROJECTS

**PlanMatrix** | Java, Spring Boot, Selenium, React, Tailwind, System & Unit Testing, Git  
GitHub Sep 2024

- Built a Selenium web crawler to scrape real-time carrier data (Fido, Koodo, Rogers, etc.), enabling seamless plan comparisons.
- Developed a scalable Spring Boot and Java backend with secure REST APIs for efficient data processing.
- Created a responsive React and Tailwind CSS UI with trending plans, search history, and spell-check features.
- Optimized search performance using Hash maps and AVL/red-black trees for faster autocomplete and analysis.
- Ensured application reliability and performance by implementing System, Unit, Integration, Functional, and Black box testing, which led to early bug detection and a seamless user experience.
- Designed dynamic price/feature filters to streamline user decision-making and boost engagement.

**Chat App** | React, Typescript, Firebase, Zustand, Tailwind CSS, Git  
GitHub Sep 2024

- Built a real-time chat application using React, TypeScript, and Firebase, enhancing user interaction with an intuitive and responsive UI.
- Implemented real-time data synchronization and user activity status tracking (Online, Away, Offline), leading to improved usability and engagement.

**Bus Pass Scanner** | React, NodeJs, Express, MongoDB, Material UI, Git  
GitHub Mar 2022

- Designed and developed a cross-platform bus pass authentication application as part of a 3-member team, enhancing security and efficiency in college transportation.
- Implemented a dynamic, responsive UI using React and Material UI, improving accessibility and user experience across devices.
- Integrated JWT-based authentication, reducing unauthorized access attempts and strengthening the overall security of the system.

## EDUCATION

**University of Windsor** Windsor, ON  
Master of Applied Computing (Grade: 85.53%) May 2024 – Present

**University of Mumbai** Mumbai, India  
Bachelor of Engineering - Computer Engineering (CGPA: 8.58/10) Aug 2018 – May 2022