Savitur Maharaj

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EDUCATION

University of Calgary   Alberta, Canada
Bachelor of Science in Computer Science GPA:3.85/4.00   *2022 – 2026*

Awards
President's Admission Scholarship, Deans List   *2022,2023*

TECHNICAL SKILLS

Languages: JavaScript, Swift, Python, Java, C, HTML/CSS
Technologies and Frameworks: React, Typescript, Django, Nodejs/Express, Firebase, MongoDB, MySQL, Tailwind, Sass, Git, Github, Gitlab, Docker
Relevant Coursework: Data Structures and Algorithm Analysis, Database Management, Intro to Software Engineering, Computer Networks, Operating Systems, Web-based Systems, Distributed Systems, iOS Programming

EXPERIENCE

Software Technician Intern @ KaizenLAB (Part-Time) | *Typescript, Nodejs/Express, MySQL* May - Aug 2024
- Liaised with I.T. management to define API requirements and contributed to designing a RESTful service architecture
- Developed and deployed an automated requisition workflow, reducing processing time and minimizing human error through input validation and structured data storage
- Assisted with setup of the cloud infrastructure using AWS RDS for database hosting and Render for server deployment

PROJECTS

VolunTree | *SwiftUI, Firebase, MapKit*   Ongoing
- Implemented a Firebase-integrated backend to allow registered organizations to create, update, and manage volunteering opportunities in real-time
- Developed an interactive MapKit interface with geolocation-based filtering and tag-based search
- Designed and integrated a gamified challenge system with user progress tracking and a real-time global leaderboard powered by Firestore queries and aggregation logic

Agar.io clone | *Typescript, Django*   Apr 2025
- Efficiently implemented a distributed approach by using a proxy that routes to a primary server
- Designed a leader election at the proxy to allow a new primary server to be chosen if it fails
- Ensured consistency at primary and backup servers by utilizing Lamport timestamps

Book Club Organizer | *React, Tailwind, Firebase, Docker*   Dec 2024
- Implemented themed book club creation and membership features with a dynamic UI
- Integrated Firebase Authentication and Firestore for secure user access and real-time data syncing
- Containerized the full-stack application with Docker to streamline cross-environment deployment

Student Scheduler Management System | *React, Sass, Node.js/Express, MySQL* Dec 2023
- Engineered a dynamic scheduling interface for students using React state management and conditional rendering to support multi-semester planning
- Designed a RESTful API to allow students to submit course ratings and retrieve personalized scheduling data

Fictional Character REST API (Backend) | *Nodejs/Express, MongoDB*   Aug 2023
- Developed a REST API to store and manage media characters using MongoDB Atlas and Express
- Implemented JWT-based authentication and tested endpoints with Postman

EXTRACURRICULAR ACTIVITIES

VP Teaching for Origami-Aid   Apr 2024 - Present
- Coordinated with other club executives to plan weekly folding sessions and collaborations with other clubs

Executive of Academic Events for the Computer Science Undergraduate Society   Nov 2023 - Mar 2025
- Created workshops for undergraduate students and assisted in planning CalgaryHacks 2025