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, 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 @ Kaizen-tt (Part-Time) | *Typescript, Nodejs/Express, MySQL*   May - June 2024
- Collaborated with stakeholders to analyze the project's requirements and to ensure the solution met business needs
- Contributed to the automation of a manual requisition process to improve operational efficiency
- Supported production deployment by leveraging AWS RDS and Render for scalable and reliable cloud-based infrastructure

PROJECTS

Voluntree | *SwiftUI, Firebase*   Ongoing
- Enabled organizations to post volunteering opportunities for users
- Utilized MapKit to create a map with filtering functionality to allow users to easily find opportunities suited to their interests
- Allowed users to engage in challenges and compete with each other on a global leader-board

Agar.io clone | *Typescript, Django*   Apr 2025
- Used the Phaser game framework to create a fluid multiplayer experience
- 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
- Users can join or host book clubs based on certain themes
- Facilitated real-time data synchronization and user authentication with Firebase
- Utilized Docker for containerization, ensuring consistent deployment across various environments

Student Scheduler Management System | *React, Sass, Nodejs/Express, MySQL*   Dec 2023
- Helped coordinate meetings and set up project goals within a team of three
- Enabled student users to plan their schedules for upcoming semesters and submit course ratings
- Enabled administrator users to edit course details for degrees in their department

Fictional Character REST API (Backend) | *Nodejs/Express, MongoDB*   Aug 2023
- Designed a REST API in which you can describe characters from media such as TV shows or books
- Used JWTs for user authentication and stored user data in the cloud using MongoDB Atlas
- Tested API endpoints using 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