

Abejith Pratheepan

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EDUCATION

Honours Bachelors of Science in Computer Science (Co-op)

Sept 2021 - Nov 2025

- Specializing in Software Engineering

TECHNICAL SKILLS

- **Programming Languages:** Python, PHP, C/C++, Java, JavaScript, TypeScript, HTML/CSS, Bash, SQL, NoSQL
- **Frameworks/Libraries:** React, Node, MongoDB, Express, TailwindCSS, PostgreSQL, Figma, Svelte
- **Development Practices:** Agile, TDD, CI/CD, Unix/Linux, Shell Scripting, Responsive Design, Accessibility

EXPERIENCE

Software Developer

UTSC, Library Digital Scholarship Unit

Sept. 2024 - Present

- Enhanced the Islandora application stack by optimizing search and indexing processes, contributing to improved performance and user experience.
- Developed and executed several processing scripts to transform and normalize large datasets, improving data accessibility for ongoing research projects.

Full Stack Developer

Jan. 2024 - Aug 2024

Freelance

- Designed and developed 10+ full-stack web applications using **React**, **Node.js**, and **MongoDB**, ensuring seamless front-end and back-end integration to meet diverse client needs.
- Implemented responsive design and accessibility best practices, enhancing user experience and driving **15% higher customer retention** across client applications.

Academic Tutor

Apr 2022 - Aug 2022

TUSGU Educational Services

- Organized academic material enriching students' understanding of math and science concepts which resulted in a significant improvement in course grades
- Identified the strengths and weaknesses of each student to curate an effective lesson plan to improve their proficiency in the subjects

PROJECTS

Grant Service - MagnifyAccess

Apr 2024

- Designed and implemented an intuitive interface using **Svelte**, **TailwindCSS**, and **Shadcn** for companies and applicants, facilitating grant application creation, distribution, and tracking.
- Optimized database performance using **PostgreSQL** and **Supabase**, reducing query response time by **30%**, and ensuring seamless data handling during testing and development.

MyWeekend

Oct 2023

- Developed an application that utilizes the **ChatGPT** and **Google API** to allow users to generate **personalized itineraries** based on interests, budget, and location.
- Stored users' personalized itinerary plans using **MongoDB** and **Express.js** to route API endpoints to handle HTTP requests from the client

MyCourseManager

Dec 2022

- Created an Android application using **Java** and **AndroidStudios** that enabled users to manage currently offered courses
- Primarily worked to implement a recursive algorithm allowing students to display their courses within a chronological timeline, which performed **20%** faster than previous implementations