

SOHAM NAGI

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EDUCATION

University of Waterloo

Bachelor of Computer Science - Human-Computer Interaction Specialization

EXPERIENCE

Incoming Software Developer Intern

Jan. 2025 – Apr. 2025

ScotiaBank

Toronto, ON

- Work on building **Python**-based pipelines to streamline data collection and aggregation across branches.
- Optimizing the user interface and functionality of the scheduling software dashboard to improve usability.
- Explore leveraging **GenAI** for automating summary generation and delivering actionable insights.

Software Developer Intern

Jan. 2024 – Apr. 2024

LTI Mindtree

Toronto, ON

- Built an integration between ServiceNow and DuckCreek using **ASP.NET MVC** to streamline incident management for a major Canadian insurance provider, resulting in a **75%** reduction in ticket creation time through automations.
- Utilized ServiceNow Table and Incident APIs, integrating REST APIs with OAuth authentication to enable seamless data exchange and automated workflows, leveraging JSON and XML for versatile data formats
- Led the design and implementation of a Gen-AI powered 'Ask Me Anything' application using an **Express.js** back end and a **React.js** front end, resulting in a **25%** improvement in filing time.

Software Developer Intern

Jan. 2023 – Apr. 2023

SoCast Digital

Toronto, ON

- Developed and maintained front end and back end for 9 projects using React.js, **PHP, MySQL and JQuery**.
- Designed and implemented an audio comment module by writing clean, maintainable code, in **TypeScript** which resulted in a **4%** increase in user comments.
- Developed a web radio player using **React.js** to play m3u8 tracks, resulting in a improvement in user experience by allowing stations to easily introduce custom branding.

PROJECTS

Lyrix | Java, Spring Boot, Vite, React.js, Tailwind, PostgreSQL

- Developed a full-stack lyrics platform with a React frontend, **Spring Boot** backend and **PostgreSQL** database, facilitating translation, analysis, and insights for a dataset of classic South Asian poetry.
- Designed and implemented a responsive frontend using **React.js** and TailwindCSS, providing smooth access to translations, line-by-line transcriptions, and contextual insights.
- Integrated AI services via **Spring AI**, enabling automated translations and sentiment analysis, ensuring seamless processing of site data.

LaurierFlow | React.js, Next.js, Express, Tailwind, Supabase

- Designed and implemented the backend architecture using **Supabase** PostgreSQL, establishing robust data relationships and seamless handling of course information with database functions and triggers
- Led the development of a dynamic frontend using **Next.js**, and **TailwindCSS**, creating various components including authentication modals, course screens, review systems, explore pages, and splash screens
- Utilized Preline UI, shadcn/ui, Aeternity UI, and custom components to enhance user experience, achieving over **500+** registered users, **50000+** total visits, and **4000+** visits on launch day

Chess++ | C++, X11, BASH

- Developed a Chess game, employing **Object-Oriented** Principles such as Polymorphism, MVC architecture, RAII, and the Observer Pattern to integrate a graphical interface.
- Developed a **BASH script** to integrate **automated testing** by parsing existing LiChess games into game engine to greatly reduce testing time and effort.

TECHNICAL SKILLS

Languages: C, C#, C++, Python, Javascript, Typescript, PHP, Java, SQL

Frameworks: Streamlit, React, Vite, Express.js, Next.js, ASP.net, Spring, JUnit, Jest

Tools: Git, Docker, Kubernetes, Azure, AWS, PostMan, Bash