JOSEPH AGARWAL

COMPUTER SCIENCE AND BUSINESS

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SKILLS

Languages: C#, C++, C, Java, JavaScript, Python, SQL, HTML/CSS
Programs/Frameworks: React, ASP.NET Core, Git, Azure DevOps

EDUCATION
September 2020 - May 2025

University of British Columbia: Sauder School of Business
Specialization: Combined Major in Business and Computer Science, *Deans Honor List*

EXPERIENCE

Cascade Aerospace – *Full Stack Developer Intern*   **September 2022 - May 2023**

- Architected aeronautical application, constructing both server-side and client-side **REST APIs** with **ASP.NET Core**, saving scheduling department **20 hours weekly**
- Using **C#, LINQ, and SQL**, implemented backend logic to transfer data to both Epicor and custom databases, sending 100,000+ entries with a 100% increase in efficiency from existing designs
- Utilizing **Razor, JavaScript and DevExtreme**, designed website frontend with 6 comprehensive widgets and 20 endpoints to manage and UI changes in real time

Powerex Corporation - *Software Developer Intern*   **May 2023 - August 2023**

- Constructed a timesheet reconciliation app using **C#** and **Gembox** to validate and transform data, based on complex mapping specifications, reducing resourcing time **from 2 hours to ~3 seconds**
- Led successful migration of financial application frontend from **Angular.js to React.js**, resulting in improved performance, code maintainability, and reducing rendering time by 30%
- Designed SPP **data downloader API** and report builder to systematically populate databases and generate custom **SSRS reports** on energy transmission data

PROJECTS

Visual Ai.d

- Developed a storyboarding app which transforms large text input by systematically summarizing paragraphs and generating customized images, utilizing OpenAI's DaVinci and Dall-e APIs
- Created REST API with Flask to manage prompts, translating data through 4 separate endpoints
- Designed interactive frontend with React to display storyboarded images in separate tabs, retaining order for clear visualization

Language Exchange

- Designed a webapp which matches users learning a language with native speakers, constructed with a React frontend and JavaScript backend
- Implemented logic to save user information using Google Firebase Realtime for persistent data store