

GAGANJOT SINGH

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OBJECTIVE

Dedicated and detail-oriented IT professional with a strong foundation in software development, seeking opportunities to leverage technical expertise and hands-on project experience in delivering high-quality and innovative solutions.

TECHNICAL SKILLS

- **Languages:** JavaScript, Python, Java, C#, C, C++, HTML, CSS
 - **Frameworks/Libraries:** .NET, React, Next.js, Node.js, Express.js, Bootstrap, Tailwind CSS, Rough Notation, Framer Motion, Ionic, JavaFX
 - **Databases:** SQL (PostgreSQL, MySQL), NoSQL (MongoDB, Redis), SSMS
 - **Cloud & DevOps:** Azure (Function Apps, Logic Apps, Web App Services, Entra ID, Resource Graph, Key Vault), AWS (EC2, S3, DynamoDB, ECR, ECS, Cognito, CloudWatch), Docker, Docker Compose, LocalStack, CI/CD (GitHub Actions)
 - **Other:** Azure DevOps, GitHub, Power BI, WordPress, Agile methodologies, Jira, UI/UX design, Data Structures & Algorithms, postman, RESTful APIs, Test-Driven Development, Unified Modeling Language (UML), Microsoft Office Suite, web performance optimization, AODA accessibility compliance
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EDUCATION

Seneca Polytechnic, Toronto

September 2022 – Present

Computer programming and Analysis

CERTIFICATIONS AND ACHIEVEMENTS

- JavaScript certified (Udemy course)
 - Got President's Honour List in semester 1, 3, 4 and 5 in CPA (Computer Programing and Analysis) Seneca.
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PROFESSIONAL EXPERIENCE

Ministry of Public and Business Service Delivery and Procurement

Sep 2024 – Present

I&IT Co-Op - Web/Application Developer

- Developed and managed both the frontend and backend of GoCloud, a critical .NET-based enterprise web application used across the Ontario Public Service (OPS) for infrastructure and resource management.
- Developed and maintained the frontend of a GenAI-based application and created a test project for GenAI API integration.
- Created a CI/CD pipeline to automatically deploy the GenAI application.
- Assisted in integrating cloud services and automating workflows using Azure resources such as Function Apps, Logic Apps, and Web App Services.
- Worked with Microsoft Entra ID and Graph API to support data-driven functionality and improve system efficiency.
- Built and customized Power BI reports, including drill-through functionality, for enhanced data visualization and decision-making.
- Adding functionality of automated CICD pipelines in the application for resource creation in Azure.
- Worked extensively with SQL databases to support application features and maintain data consistency.

Peer Tutor (Part Time)

- Conduct one-on-one tutoring sessions for students in various subjects, including Web Development (frontend and backend), Data Structures and Algorithms, Software Analysis and Design, JavaScript, Python, React, Next.js, C, C++, SQL, MongoDB, Bash Scripting

Supported Learning Groups Leader (Co-op Tutor)

- Successfully managed and facilitated student learning groups for courses in C++, C, Linux, and JavaScript.
- Assisted students with their Front-end project and course instructor with course logistics.

Jr. Web Developer (Trainee)

- Collaborated with the development team utilizing React framework to conceptualize and execute a dynamic web catalogue.
- Contributed to the implementation of search and filter functionalities, leveraging JSX, components, and layouts to optimize user navigation.

TECHNICAL PROJECTS

- **Fragments Microservice:** Developed a microservice project integrating AWS S3 and DynamoDB with local Docker setup, deployed via ECS, and validated using Hurl, with in-memory testing, env configuration, and CRUD operations using AWS SDKs for JavaScript. [Docker Hub Image](#)
- **Fragments UI:** Developed a vanilla JavaScript UI for the Fragments microservice with CRUD functionality, drag-and-drop file upload, content conversion, AWS Cognito authentication, and advanced async API handling. [Docker](#)
- **Web Portfolio:** Developed a responsive portfolio web app using Next.js and Tailwind CSS, with smooth animations implemented via AOS library, Framer Motion and Rough Notation. [gaganjot-singh.vercel.app](#)
- **Museum app:** Developed a secure Museum Artwork application using Next.js and Node.js, incorporating user authentication with JWT and persisting user data (favorites and search history) to MongoDB Atlas. The project involved creating a user API, google maps API, integrating authentication and authorization, and ensuring a responsive and user-friendly interface. [museum-app.vercel.app](#)
- **2D board game:** For my DSA456 course, I implemented various data structures such as hash tables, stacks, queues, overflow and dequeues, along with building an AI for a board game using game trees. It covers key concepts such as algorithms, data management, optimization, and Python programming. [Gaganot-Singh/2d-board-game \(github.com\)](#)
- **Airbnb listings clone:** Frontend development using React and Next.js to construct a UI for a Listings API, incorporating components such as navbar, page headers, listing cards, listing details, and pagination. [airbnb-listings-clone.vercel.app](#)