Jashanjot Singh

226-505-0962 | jashanjotpanjrath@gmail.com | LinkedIn | Github | Portfolio

EXPERIENCE

Software Engineer Co-op   May 2024 – Present
Ontario Power Generation   *Bowmanville, ON*
- Led end-to-end development and deployment of a Application used by 1000+ Employees, using Angular, .NET C#, and SQL Server on Azure platforms.
- Engineered and deployed multiple automated email notification system using SMTP and .NET console applications, improving internal communications and, saving the company over $30K a month.
- Implemented CI/CD pipelines using Azure DevOps, automated the build and deployment processes to production environments, saving 3+ SWE hours per week.
- Developed a robust API using .NET and Entity Framework, streamlining data access and improving performance by 30%, supporting seamless integration with multiple Angular front-end applications.
- Initiated the development of an in-house indoor mapping application, similar to mall kiosks, providing employees with interactive navigation and location services across the facility, enhancing ease of access and operational efficiency for 500+ users.

Teaching Assistant   September 2023 – Present
University of Guelph   *Guelph, ON*
- Educated 500+ students in computer science concepts, for Programming, and Data Structures courses.
- Mentored over 100 students during office hours, helping with complex topics and guiding students to strengthen their understanding of course material.

EDUCATION

University of Guelph   Guelph, ON
Bachelor of Computing in Software Engineering (Co-op) GPA: 4.0/4.0   *Graduating May 2027*
Relevant Coursework: Operating Systems, Mobile Computing, Cloud Computing, Software Development, OOP

PROJECTS

LLM Intelligent Tutor (Hack the North 2024) | *Cohere, OpenAI, LangChain, Chroma, Prisma, Next.js*
- Developed an LLM-powered application that enables users to upload course materials, leverage RAG (Retrieval-Augmented Generation) for answering questions directly from the content, and generate adaptive quizzes tailored to enhance knowledge retention and personalized learning.

Grilling.ai (Brainrot Jia.Seed Hackathon) | *NextJs, AWS, OpenAI, DALL-E, Vercel*
- Engineered an AI app, leveraging OpenAI's GPT for natural language generation, imagery, and text-to-speech, attracting 150+ users within 48 hours.

Team Messaging App | *Typescript, Nextjs, MySQL, Prisma, Tailwind, Websockets*
- Built a messaging app using Next.js with real-time messaging, supporting one-on-one and group calls.

8 Ball Pool Simulator | *Python, JavaScript, C, SQL, Docker*
- Developed a full-stack 8-ball pool simulation with a C-based physics engine, Python backend, and interactive JavaScript frontend for realistic gameplay.

Cloud Music Player | *Typescript, Nextjs, Supabase, StripeAPI, PostgreSQL, Tailwind*
- Designed a music streaming platform with authentication, subscription management, and playback features

Shell | *Java, Maven, JLine*
- Built a custom Java-based shell with tab completion, command history, and support for built-in and external commands, enhancing user experience with JLine for terminal interactions

TECHNICAL SKILLS

Languages: C#, Java, JavaScript, TypeScript, Python, C, SQL, VBA
Frameworks: React, Next.js, Angular, Flask, ASP.NET, Entity Framework, TailwindCSS, Node.js
Developer Tools: Git, Docker, GitHub Actions, VSCode, Postman, JIRA
Database Technologies: MySQL, PostgreSQL, SQL Server, Prisma ORM, SQLite
Cloud Technologies: AWS (Lambda, S3, CloudFront), Azure (Blob Storage, VM, App Service), Supabase