Deval Panchal

Software Developer

Education

Ontario Tech University

Oshawa, ON

Bachelor of Science (Honours), Computer Science,

Awards: President's List Designation (2021 – 2024), Natural Sciences and Engineering Research Council of Canada Recipient (NSERC)

Key Skills

Languages: JavaScript/TypeScript, Python, C#, SQL, HTML/CSS **Libraries & Frameworks:** React, NextJS, Angular, SvelteKit

Data Analysis Tools: Power BI, R

Cloud Infrastructure: Azure DevOps, Google Cloud Services

Professional Experiences

Ontario Power Generation | Software Developer

Aug 2024 – Present

- Develop and maintain Angular, C#, and SQL Server applications for both station-level and enterprise-wide use
- Implement CI/CD pipelines using Azure DevOps to streamline deployment processes
- Develop reporting tools using SQL Server and Power BI, used at the corporate level for performance monitoring, regulatory compliance, and executive decision-making
- Database owner of the production server responsible for ensuring data integrity, performance tuning, implementing backup strategies, and managing role-based access control
- Technical Environment: Angular, .NET, SQL Server, Azure DevOps

Ontario Tech University | Software Developer Research Fellowship

May 2023 - October 2024

- Collaborated with a Ph.D. candidate to explore AI-driven language learning methodologies, contributing to the design of 2 experimental models evaluated by over 30 participants
- Led data collection and user studies involving 120+ participants across 3 demographics to assess the
 effectiveness of AI-powered language-learning tools, resulting in a 25% improvement in vocabulary
 retention
- Technical Environment: ReactJS, NodeJS, ExpressJS, PostgreSQL, Docker, GitHub, Trello

Ontario Power Generation | Data Analyst

May 2022 – September 2023

- Maintained and cleaned SQL queries for more efficient runtimes, up to 98% improvement in queries for data retrieval, and managed ETLs
- Created, modified, and scheduled stored procedures in SQL Server to maintain the database, seamlessly syncing them with 5+ dashboards to manage and process over **50,000+** data points efficiently
- Oversaw database operations, specializing in the modelling and data architecture design for scalable projects
- Technical Environment: MSSQL, Power BI, Power Apps

Projects

LingoComics | SvelteKit, Firebase, Docker, OpenAI-API

Angular, .NET Core

- Developed a full-stack innovative Al-centered language learning web application with SvelteKit and Firebase
- Implemented a *Story Designer* feature using OpenAI's DALLE-3 and GPT-4-Turbo API's to generate situational stories

March 25, 2025