Deval Panchal

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EDUCATION

Ontario Tech University   Oshawa, ON
Bachelor of Science (Honours), Computer Science, cGPA: 3.64   *Sept. 2019 – April 2024*

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, SQL (Postgres, MSSQL), HTML/CSS, Python
Frameworks: React, Node.js, SvelteKit, Angular
Data Analysis Tools: PowerBI, Tableau, R
Developer Tools: Git, Docker, Azure cloud services Google cloud services
Libraries: Pandas, NumPy, Matplotlib

EXPERIENCE

Software Developer   September 2023 – Present
Ontario Tech University   *Oshawa, ON*
- Spearheaded full-stack development for a web-based language learning application, with a strong focus on UI/UX
- Developed a pipeline to handle an augmented-reality process to classify images and generate language learning curriculum
- Deployed code in a Cloud-hosted environment using Docker Cloud
- Manage PostgreSQL database handling 1,000 - 2,000 queries per day, ensuring high availability and reliability
- Wrote 100,000+ lines of code to develop a robust language learning application

Data Analyst   May 2022 – September 2023
Ontario Power Generation   *Pickering, Ontario*
- Designed and developed PowerBI dashboard for managers to track live work orders in unison with PowerApps to allow manager notes and live edits, saving over 10 weeks for managers
- Created, Modified, and scheduled stored procedures in SQL server to maintain database, seamlessly syncing them with 5+ dashboards to manage and process over 50,000 + data points efficiently
- Maintained and cleaned SQL queries for more efficient runtimes up to 98% improvement in queries for data retrieval and managed ETLs
- Oversaw database operations, specializing in modelling and data architecture design for scalable projects
- Automated numerous reports using Python saving 10+ hours a week for employees
- Provided technical support and training to team members on PowerBI and SQL best practices

Undergraduate Research Fellowship   May 2021 – May 2022
Ontario Tech University   *Oshawa, Ontario*
- Explored methods to generate an innovative language learning curriculum using augmented reality
- Developed a full-stack web application using ReactJS and NodeJS for a language learning application
- Conducted a user study for new language learners to determine the efficacy of new language learning methodology

PROJECTS

LingoComics | *SvelteKit, Firebase, Docker, OpenAI-API*
- Developed a full-stack innovative AI-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
- Extensively designed user interface using Figma for the most user-friendly experience

Task Management App | *Angular, ASP.NET*
- Developed a task management application to demonstrate proficiency in Angular and .NET technologies
- Built a RESTful API using ASP.NET for the back-end to handle task operations
- Employed an in-memory database for quick data storage and retrieval