Deval Panchal

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Key Skills

Languages: JavaScript, SQL, C#, Python, Node, Dart, Java, C++, HTML/CSS, TypeScript
Libraries & Frameworks: React, Vue, Svelte, .NET, Angular, Express, Bootstrap, Git, Flutter, jQuery
Database Management: MSSQL, PostgreSQL, PowerBI, PowerApps, MongoDB, Firebase
Cloud Infrastructure: Azure cloud services, Google cloud services
Concepts and Project Management Tools: Figma, UI/UX, REST APIs, Docker, Agile Methodologies, Trello, Unit Testing, Artificial Intelligence, Machine learning

Education

Ontario Tech University Oshawa, ON
Bachelor of Science (Honours), Computer Science, cGPA: 3.64
Awards: President's List Designation (2021 – 2022), Natural Sciences and Engineering Research Council of Canada Recipient (NSERC)

Professional Experiences

Ontario Tech University | *Software Developer Research Fellowship* May 2021 – Present

- Spearheaded full-stack development for a web-based language learning application, with strong focus on UI/UX
- Utilized prototyping tool Figma to develop wireframe during initial phases of project
- Improved application performance by 70% by optimizing ReactJS components and efficient API calls
- Deployed code in a Cloud hosted environment using Docker Cloud
- Create Express REST API endpoints to feed UI components with PostgreSQL data following MVC architecture
- Employed agile methodologies to manage project development effectively, using tools like Trello
- Managed database handling 1-2 thousand queries per day, ensuring high availability and reliability
- Designed and implemented automated testing procedures to ensure high-quality code
- Conducted code reviews and provided mentorship to junior developers
- **Technical Environment**: ReactJS, NodeJS, ExpressJS, PostgreSQL, Docker, GitHub, Trello

Ontario Power Generation | *Data Analyst* May 2022 – September 2023

- Designed and developed PowerBI dashboard for nuclear Innage Control Centre manager to analyze vitals on reactor unit operations to ensure plant efficiency is met in the top 1% of global nuclear plant operations
- Created, modified, and scheduled stored procedures in SQL server to maintain database and generate clean data
- 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 the modelling and data architecture design for scalable projects
- Provided technical support and training to team members on PowerBI and SQL best practices
- Developed custom scripts in Python to automate data analysis and reporting processes
- Prepared detailed reports with insights and recommendations
- **Technical Environment**: MSSQL, SSMS, Power BI, Python

Projects

Sorting Algorithm Visualizer

ReactJS, HTML, SCSS

- Developed a web application showcasing various sorting algorithms to help users understand how they work
- Applied knowledge of data structures and algorithms to visualize various sorting algorithms
- Implemented responsive design principles to ensure compatibility across devices
- Integrated user feedback to refine and enhance application features
- GitHub | Website

Instagram Clone

Vue, Node/ExpressJS, MongoDB

- Developed a full-stack Instagram clone showcasing all CRUD (Create, Read, Update Delete) operations
- Implemented user authentication and authorization using JWT (Json Web Tokens)
- Designed a scalable backend architecture to handle high user traffic and data loads
- Utilized Vue.js for dynamic and interactive front-end components
- GitHub

Task Management App

Angular, .NET Core

- Developed a simple task management application to demonstrate proficiency in Angular and .NET technologies
- Implemented features for creating, viewing, updating, and deleting tasks
- Utilized Angular for the front-end to create a dynamic and responsive user interface
- Built a RESTful API using ASP.NET Core for the back-end to handle task operations
- Employed an in-memory database for quick data storage and retrieval
- GitHub