Shubh Joshi

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Languages: Python (**Exp**: 4+ years), C/C++ (**Exp**: 4+ years), JavaScript (**Exp**: 4+ years), Java, PowerShell
Technologies: MySQL/MSSQL, MongoDB, React.js, Next.js, Node.js, AKS, AWS, Flutter, Selenium, JMeter
Certifications: Microsoft Azure Fundamentals (AZ-900)

Work Experience

Prep Doctors Corp – Software Developer | Product Manager   01/2024 – Present; Mississauga, ON
- Led the full SDLC of a **10-microservice** AI-driven Medical LMS, architecting a scalable global system supporting **10,000+ concurrent users,** using **Next.js**, **Node.js**, **MSSQL**, **Redis**, **Kubernetes**, and **Socket.IO**.
- Engineered and fine-tuned a local **LLM**-based system using **GPT-3 Mini** (via **Ollama**) and Google APIs to generate **20,000+** board-certified dental examination questions, reducing instructor content generation load by over **4,000 hours**.
- Developed **RESTful APIs** to integrate external applications within **CRM** platforms (Zoho, HubSpot); developed internal APIs to support custom CRM requests and extend core system functionality.
- Developed and maintained full-stack web applications built on **WordPress**, **React.js**, **Node.js**, **MySQL**, **InMotion**, and **AKS**.
- Designed scalable **system architecture** and **relational database models** in collaboration with product teams to align technical structure with functional requirements.

Sun Life Financial – Software Developer `   01/2022 – 08/2022; Waterloo, ON
- Developed server-side components using **PowerShell** to securely migrate file transfers from "FTP" to "**SFTP"**.
- Implemented **XML-based storage** and **querying** in MSSQL using XML data types and **XQuery**, for structured data manipulation and tracking.
- Developed SQL and PowerShell scripts for streamlined data extraction and analysis within SQL databases.

CIBC - Application Developer   05/2020 – 12/2020; Toronto, ON
- Supported the migration from SharePoint 2013 to **SharePoint Online** by optimizing PowerShell-based **ETL** scripts to extract and stage legacy data in MSSQL pre deployment.
- Created **Power Automate Flows**, to automate repetitive business processes, improving operational efficiency **by 20%**.

Projects

'PrepX'
- Managed the full SDLC of an automated medical learning management system, driving operational efficiency and enhancing student learning outcomes — from system design and product strategy to development, testing, and DevOps. Led 4 cross-functional teams to deliver a scalable **global** enterprise platform supporting **10,000+ concurrent users** and improving business efficiency by **over 45%**.
- **Tech Stack**: Node.js, Next.js, Redis, MSSQL, AKS, SonarQube, Trivy, Socket.IO, JMeter, Flutter

'Jain Bites'
- Developed a full-stack mobile application tailored to assist users in locating suitable restaurants that align with their 'Jain' dietary preferences, garnering a user base of over **2000 users**, across both the App Store and Google Play Store.
- **Tech Stack**: JavaScript, Apache Cordova, Google API's, HTML/CSS

Chess Bot
- Developed a Chess AI game using the Minimax algorithm with Alpha-Beta pruning.
- **Tech Stack**: Python

Artificial Neural Network
- Developed a feedforward neural network from scratch using NumPy to analyze the MNIST dataset.
- **Tech Stack**: Python

Education

University of Guelph   09/18 - 06/23, Guelph ON

Bachelor of Computing - Computer Science