

Shubh Joshi

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Languages: Python (**Exp:** 4+ years), C (**Exp:** 4+ years), JavaScript (**Exp:** 4+ years), Java, C++, PowerShell

Technologies: MySQL, MongoDB, React.js, Next.js, Node.js, Azure Cloud, Flutter, Selenium, Apache JMeter

Certifications: Microsoft Azure Fundamentals (AZ-900)

Work Experience

Prep Doctors Corp – Software Developer | Product Manager

01/2024 – Present; Mississauga, ON

- Architected and developed a **20-microservice** medical examination platform using **Next.js**, **Node.js**, **MySQL**, **Redis**, **Azure Cloud**, and [Socket.io](#).
- Built **RESTful APIs** to sync external applications with Zoho and HubSpot; developed internal APIs to power custom CRM apps and extend core functionality.
- Developed an AI model using **LLM's (O3-mini/GPT-4o Omni)** and **Google APIs** to generate 20,000+ board-certified medical questions, reducing instructor content creation time by over 4,000 hours.
- Led the full-stack development of web applications with **Wordpress**, **React.js**, **Node.js**, and **MySQL**.
- Established automated testing pipelines using **Selenium** and **Apache JMeter**, improving testing efficiency and reducing pre-release software defects.
- Designed **system architecture**, **database models**, and technical documentation, serving as the primary technical point of contact with product stakeholders to ensure alignment of business needs with cost-effective technical solutions.

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.
- Developed **SQL** and **PowerShell** scripts for streamlined data extraction and analysis within SQL databases.
- Used **XML** to format and store structured data within SQL databases, concurrently developed business automation **Python** scripts.

CIBC - Application Developer

05/2020 – 12/2020; Toronto, ON

- Analyzed and optimized **SQL** queries to support the SharePoint 2013 to SQL database migration.
- Engineered the migration from SharePoint 2013 to **SharePoint Online** and designed **Power Automate Flows**, improving operational efficiency by 20%.

Projects

'Jain Bites'

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

Chess AI Game

- 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, implementing custom forward/backward propagation, mini-batch gradient descent, and cross-entropy loss.
- **Tech Stack:** Python

Education

University of Guelph

Bachelor of Computing - Computer Science