

Yash Serai

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Education

Simon Fraser University, Burnaby BC

Bachelor of Science, Computing Science

August 2024

Certifications

Microsoft Certified: Azure AI Engineer Associate

February 2025

Microsoft Certified: Azure Developer Associate

January 2025

Experience

CJSF Radio Station, Burnaby, BC

DevOps Engineer

Mar 2024-Sept 2024

- Automated infrastructure provisioning and application deployment, reducing manual effort by 40%
- Improved network security and data flow by 25% through infrastructure design and maintenance.
- Optimized server performance, decreasing system downtimes by 20% and enhancing application reliability.
- Created comprehensive documentation for configurations and processes, improving knowledge transfer and onboarding

Pakiza Textile, Dubai, UAE

Software Developer and Tester

Mar 2022-Dec 2022

- Identified and resolved software bugs and issues, contributing to a 15% increase in system stability and receiving commendation from the team for meticulous debugging and code optimization.
- Authored comprehensive documentation for Inventory management project, significantly reducing onboarding time for new team members and contributing to the knowledge-sharing culture within the development team.
- Assisted with the development and implementation of a real-time inventory tracking system, resulting in a 30% reduction in stock discrepancies and enhancing overall accuracy in inventory management processes.

Projects

Text generation and attention

Python, NLP, Attention, PyTorch, Git

Jan 2024

- Implemented attention mechanisms in a pre-trained sequence-to-sequence (seq2seq) neural machine translation (NMT) model, significantly improving translation performance.
- Optimized the NLP model's performance by implementing and fine-tuning attention mechanisms, resulting in a reduction in inference time.
- Demonstrated expertise in virtual environment setup and package management using Python's venv and pip, ensuring a smooth development process for the NMT model.
- Produced a comprehensive report summarizing the task, describing the implemented method, presenting both quantitative and qualitative results, and discussing alternative methods, contributing to effective documentation practices.

Digit Recognition

Python, CNN, Preprocessing, TensorFlow, Git

Sept 2023

- Designed and developed a convolution neural network model in Python, showing expertise in machine learning and artificial intelligence.
- Successfully preprocessed the MNIST dataset, including data loading, normalization, and augmentation, ensuring optimal model training.
- Overcame challenges in model training and optimization, showcasing problem-solving skills crucial in machine learning development.
- Maintained detailed code documentation, including comments and clear function descriptions, facilitating easy understanding.

Sudoku Translation App

Android, Agile, Testing, Java, Git, Kotlin

Feb 2023

- Designed and developed a multifunctional Sudoku app for Android that integrates language learning, offering users a unique and engaging educational experience.
- Successfully applied Agile software development methodologies to manage the project's timeline, prioritize tasks, and adapt to evolving requirements as part of a collaborative team effort.
- Utilized external file storage for the list of words to enable seamless data updates and customization options, enhancing the app's user-friendliness and adaptability.

Automated Inventory Management System for Textiles

Web Dev, Documentation, Django, Database Management

Dec 2022

- Developed and implemented a user-friendly web-based inventory management system tailored for the textile manufacturing industry, significantly improving efficiency in tracking and managing raw materials and finished products.
- Designed and implemented real-time data synchronization functionality, ensuring accurate and up-to-date inventory information for users across various departments.
- Developed and maintained documentation, including user manuals and documentation, to assist end-users and ensure system sustainability.

Skills

Programming Languages C, C++, R, Java, JavaScript, Python, SQL, Matlab,

Frameworks & Libraries TensorFlow, PyTorch, Numpy, React.js, MongoDB, SQLite, Git, SQL, Azure, JUnit, Django, Snowflakes

Soft Skills Organization skills, Attention to Detail, Agile, Patience, Multitasking, Time Management, Critical Thinking, Creativity