LISHA MAHARJAN

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TECHNICAL SKILLS

Programming Languages: Python, SQL, C#, JavaScript, NodeJS, Java, C++, HTML
Tools and Platforms: SQL Server, MySQL, MongoDB, Linux, Git, Visual Studio Code, Shell Scripting, Docker, Pandas, Numpy, Snowflake, Tableau, Power BI, Elasticsearch, Kafka, Microsoft Office (Excel, Word, Powerpoint)
Primary Frameworks: Django, FastAPI, Flask, Angular, Express.js, jQuery, Bootstrap
Certificates: Microsoft Certified Azure Fundamentals (Microsoft), Intermediate SQL (Datacamp)

EDUCATION

Miami University, Oxford, Ohio   *Aug 2023 - May 2025 (Expected)*
Master of Science in Computer Science
GPA: 4.0/4.0
Relevant Coursework: Model-Driven Software Engineering, Machine Learning, Comparative Programming Lanugages, Advanced Networking, Software Quality, Large-Scale Empirical Software Engineering

Kathmandu Engineering College, Kathmandu, Nepal   *Nov 2017 - Apr 2022*
Bachelor of Engineering in Computer Engineering
GPA: 3.73/4.0
Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Data Mining, Database Management System, Object-Oriented Analysis and Design, Artificial Intelligence, Theory of Computation

RESEARCH

Studying Capabilities of Large Language Models for Accessibility-Related Issues
- Investigating the capabilities and applications of large language models, such as OpenAI GPT-4, to identify and resolve web and mobile accessibility issues.

WORK EXPERIENCE

Graduate Teaching Assistant, *Miami University*   *Aug 2023 - Present*
- Evaluating UI/UX and **Software Quality** coursework by reviewing design improvements and **test cases** written in JUnit.
- Conducted help sessions and assisted students in labs on fundamental concepts of Object Oriented Programming, and Data Abstraction and Structures and guided them on coding process and best practices on **style standards, test cases** and program execution.

Associate Software Engineer, *LIS Nepal*   *Apr 2022 - Jul 2023*
- Accelerated order fulfillment process by developing a **decision engine API** to select best stores using linear programming optimization approach and deployed web application using **FastAPI** and **Docker**.
- Improved monitoring and root cause analysis of system errors by implementing **Elastic, Logstash, and Kibana (ELK)** architecture to perform log parsing and analytics.
- Boosted efficiency of image data scraping script in **Python** by implementing **multiprocessing**, resulting in 33% reduction in processing time.

PROJECTS

Advanced Networking: Multi-Server Network System
- Developed a multi-machine network system using 3 AWS and 2 OpenStack instances hosting a web application and Python APIs and integrated Flask APIs and OAuth to fetch and display city descriptions and weather data, leveraging Todoist and Wikipedia APIs for web application.

Rental Marketplace
- Developed web application using **MEAN (MongoDB, Express, Angular, and Node)** stack and implementing (Model View Controller) **MVC architecture** allowing users to search easily for property rentals using filters or post rental ads.