Laxmi Timsina

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EDUCATION

Bachelor of Science in Computer Science

St. John Fisher University

- Graduated Magna Cum Laude, GPA: 3.84
- Boris D. Rakover Award in Excellence in Mathematics and Computer Science
- Relevant Coursework: Data Structures and Algorithms, Calculus I–III, Linear Algebra, Artificial Intelligence, Software Engineering, Operating Systems, Programming Embedded Microcontrollers, Computer Graphics

Technical Skills

Languages: Python, C, C++, C#, Java, JavaScript, TypeScript, HTML/CSS, SQL, Assembly, VBA, LabVIEW
Frameworks & Libraries: React, Redux, Node.js, Express, Django, FastAPI, Next.js, Tailwind CSS, Bootstrap, React Native, React Query, Unity, NativeWind, Drizzle ORM
Databases: MongoDB, PostgreSQL, MySQL, SQLite
Tools & Platforms: Git, Linux, Raspberry Pi, Postman, Chrome DevTools, Microcontrollers, Multisim, Jira, Agile Software Devolpment

Projects

Mercury Mobile - Health App

(React, Node.js, Express, MongoDB, Tailwindcss)

- Championed the deployment of RESTful APIs in Node.js/Express to streamline patient appointment workflows and enhance dispatch logic effectiveness
- Drove optimization of MongoDB schemas and indexing strategies, enhancing data retrieval efficiency and system performance while seamlessly integrating NoSQL solutions
- Integrated authentication using JWT and role-based access control to secure endpoints.

Warehouse Simulation - Fullstack Warehouse Simulation

(Django, REST Framework, React, SQL)

- Led the creation of customizable Django REST APIs to mimic WCS automation, WMS inventory/order flows, and ERP shipping processes, resulting in optimized inventory/order flows
- Enhanced order tracking efficiency and provided real-time visualization of warehouse operations through the development of an interactive React dashboard

Travel the Canal - Unity Educational Game (C#)

(Unity, C#)

- Formed an interactive Unity/C# simulation of the Erie Canal journey, enriching learning outcomes by 25%
- Enhanced the user journey by incorporating shopping, quiz challenges, weather events, and health encounters, yielding a 10% surge in user engagement
- Developed a context-aware narrative engine that dynamically adjusts text and scenarios based on player decisions, elevating replay value and educational effectiveness
- Implemented an event-driven, singleton-based state manager to orchestrate game events and maintain consistent state across scenes and modules.

Hackathons

Organization: RIT
Designation: Brickhack 11 - leafzer0
(Django, SQL, TensorFlow, NumPy, HTML&CSS)

- Designed a full-stack solution with Bootstrap for a responsive UI, Django for backend processing, and SQL for data handling.
- Developed an LSTM-based forecasting model in TensorFlow to predict and optimize emissions data while reducing noise and sensitivity from the dataset.
- Processed large datasets with NumPy and Pandas and visualized insights using Seaborn for real-time analytics.

Hackathons

Organization: RIT
Designation: Brickhack X - AmbuLink
(React, Django, SQL, HTML&CSS)

- Architected Django REST Framework APIs with JWT-based authentication and role-based access control to securely manage dispatchers, paramedics, and administrators.
- Engineered a custom real-time geolocation matching algorithm, integrating third-party mapping and notification APIs to assign the nearest available ambulance within seconds.
- Optimized PostgreSQL schemas with strategic indexing and partitioning, ensuring ACID compliance and sub-second query performance under peak emergency loads.