

Aashish Thapa

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EDUCATION

The University of Southern Mississippi

Bachelor of Science in Computer Science, Minor in Mathematics

Hattiesburg, MS

Aug. 2023 – May 2027

EXPERIENCE

Undergraduate Research Assistant

The University of Southern Mississippi

Oct 2024 – Present

Hattiesburg, MS

- Developing a real-time image detection system using YOLO and Raspberry Pi.
- Building a custom user interface for a robot, enabling it to detect and analyze objects or their parts in real time.
- Strengthening skills in computer vision, embedded systems, and robotics.

Web Developer Intern

Islington College

Dec 2022 – July 2023

Kathmandu, Nepal

- Boosted website performance, cutting load times by 30 percent through image compression, file minification, and server-side optimization with Node.js and Express.
- Ensured cross-browser consistency by identifying and resolving bugs, maintaining smooth performance across different platforms.
- Increased user engagement by 20 percent by adding a blog section and contact form, leveraging React and MongoDB for dynamic content.

Mathematics Tutor

Jana Jagriti Gyan Rashmi Secondary School

Jan. 2022 – Sep 2022

Kathmandu, Nepal

- Provided individualized instruction to students in Geometry, Trigonometry and Pre-Calculus
- Offered guidance on study skills, time management, and test-taking strategies.
- Developed lesson plans and teaching materials tailored to students' needs.

PROJECTS

Course Management System | React, Node.js, SQL

June 2024 – Present

- Developed a course management system for the university, allowing professors to manage courses, upload materials, and track student progress.
- Implemented user authentication, dynamic content rendering, and database integration for storing course data.
- Optimized performance and ensured data integrity, enhancing both user experience and system reliability

FullStack Ecommerce Web Application | MongoDB, ExpressJS, ReactJS, NodeJS(MERN) Dec 2023 – Feb 2024

- Developed a scalable e-commerce web application using the MERN stack (MongoDB, Express, React, Node.js) featuring user authentication, product listings, shopping cart, and payment integration.
- Implemented secure data transactions with JWT-based authentication and integrated third-party payment systems to ensure smooth and safe checkout processes

Advanced Finance App | React, Node.js, MongoDB, ExpressJS, chart.js

May 2023 – August 2023

- Built with React and styled using Styled-components for seamless user interaction.
- Utilized Context API to manage global state for income and expense data.
- Implemented interactive charts with Chart.js to display income and expenses trends

TECHNICAL SKILLS

Languages: Python, C/C++/C, SQL PostgreSQL, JavaScript, HTML/CSS

Frameworks: React, Node.js, Flask, WordPress, Material-UI, FastAPI

Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm

Libraries: pandas, NumPy, Matplotlib