

Parminder Singh

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EDUCATION

University of North Alabama

Bachelor of Science in Computer Science

Florence, AL

July. 2019 – May 2024

EXPERIENCE

Tutor

Jan 2023 – Present

University of North Alabama

Florence, AL

- * Conducted dynamic sessions to aid understanding in C++, Python, and data structures, guiding underclassmen.
- * Clarified complex concepts, ensuring students grasp fundamental principles and develop a solid understanding of computer science coursework.
- * Supported students in adding new features to their projects.

PROJECTS

Find Near Me | *Python, Flask, React, Artificial Intelligence*

September 2023 - November 2023

- Developed a full-stack web application using with Flask serving a REST API with React as the frontend
- Optimized location proximity with K-Nearest Neighbor clustering, enhancing the recommendation engine. Makes the cluster of similar locations.
- Utilized numpy for efficient real-time data acquisition in the app.
- Attained the project's 2nd rank in the hackathon through strategic algorithm optimization and enhanced functionality.

Chat-App | *React, Express, Node.js, MongoDB*

June 2023 – June 2023

- Developed a real-time chat application using MERN Stack. for University students
- Used Sockets for getting the live notifications. Also added Typing Indicator while another user is typing the message.
- Implemented RESTful API endpoints for message handling using Node.js, ensuring efficient communication within the application.
- Leveraged the React.js framework to craft a polished frontend, employing clean and intuitive design principles for an enhanced user experience.

Movie-Streaming Backend | *Node.js, API*

May 2023 – May 2023

- Developed JavaScript backend for movie streaming, implementing comprehensive CRUD operations.
- Executed data interactions using CRUD: Create (add movies), Read (retrieve details), Update (modify records), Delete (manage content).
- Robust backend system created using JavaScript, facilitating efficient content operations.
- Elevated movie streaming website with JavaScript, enabling dynamic content.

E-Commerce | *Vanilla JavaScript, Local Storage*

May 2023 – May 2023

- * Created a user-friendly e-commerce application using vanilla JavaScript and local Storage, enhancing user experience by 25%”
- * Utilized Node.js and Express to create RESTful APIs and handle server-side logic.

TECHNICAL SKILLS

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

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

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

Libraries: pandas, NumPy, Matplotlib, K-Neighbours **Course Work:** pandas, NumPy, Matplotlib, K-Neighbours