JAIYANTH LAKUMARAPU

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EDUCATION

George Mason University, Fairfax, Virginia, USA — May 2024
Masters in Computer and Information Sciences — GPA: 3.52
Vellore Institute of Technology, Amaravati, Andhra Pradesh, India — May 2022
Bachelor of Technology in Computer Science — GPA: 8.71/10

SKILLS

- **Languages:** JAVA, Python, JAVASCRIPT, HTML, CSS, TypeScript
- **Frameworks and Libraries:** REACT JS, Node JS, Next JS, Tailwind CSS, Bootstrap, Redux
- **Databases:** SQLite, Oracle, Firebase
- **Version Control Tools:** Git (GitHub)
- **Front-End Development Tools:** Babel, Webpack, NPM
- **Software:** Microsoft Word, Excel, PowerPoint
- **GUI:** Visual Studio Code, Eclipse, NetBeans, PyCharm

PROJECTS

KeyBinder - A VS-Code extension for managing keybindings, May 24
- Created VS Code extension, to manage keyboard shortcuts using JavaScript, HTML, CSS, and the VS Code API.
- Integrated custom React JS and JS shortcuts and released on Visual Studio Code Marketplace.

NexSearch - A Search Engine with Google API, April 24
- Built a Next.js application with Tailwind CSS, integrating Google, weather, and location APIs.
- Implemented pagination, shimmer effects, and robust routing with Next.js loading and error pages.

Netflix AI - A netflix clone with AI movie suggestion feature, March 24
- Designed a Netflix clone using React JS and Tailwind CSS, integrating Firebase for authentication and data storage.
- Integrated openAI model(turbo3.5) for movie recommendations based on user input.

Hungry Hub - Food Ordering System, December 23
- Developed a Food Ordering System with React JS, Node.js, Tailwind CSS, and using React hooks.
- Ensured data synchronization with RESTful APIs, HTTP requests and Firebase for authentication and data storage.

Plant Disease Identification System Using Machine Learning, August 21 - October 21
- Developed a disease identification system using CNN models called Alex Net model.
- This system helps farmers in identifying diseases of crops and choosing pesticides for those diseases.

Gas Leakage Detector using Arduino, July 19 - November 19
- Built a Gas leakage detector using Arduino to identify gas leaks.
- This device detects leakage of gas with the help of an MQ5 sensor and alerts the people using a buzzer.

EXPERIENCE

Assistant AI Web Developer, Mason Online Department, GMU, April 23 - May 24
- Developed AI chatbot systems for generating educational assessments.
- Leveraged function-calling techniques using OpenAI models to develop a chatbot capable of making API calls within the Canvas LMS to create and modify pages.
- Integrated OpenAI models seamlessly with React, TypeScript, Next.js and Node.js.
- Designed and implemented intuitive user interfaces for enhanced user experience.

CERTIFICATIONS

- React - The Complete Guide 2024 (incl. Next.js, Redux) - Udemy
- Using python to access web data - Coursera.
- Using Database with python - Coursera
- Machine Learning with python - Cognitive Class.ai
- Role of Data Analyst - NASSCOM

ACHIEVEMENTS

- Secured 6th position in engineering clinics Expo for developing gas leakage detector. 2018 - 2019