JAIYANTH LAKUMARAPU

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EDUCATION

George Mason University, Fairfax, Virginia, USA, **May 24**
Masters in Computer and Information Sciences
Vellore Institute of Technology, Amaravati, Andhra Pradesh, India, **May 22**
Bachelor of Technology in Computer Science

SKILLS

- **Languages:** C**,** Java, Python, JavaScript, HTML/CSS, TypeScript
- **Frameworks and Libraries:** React JS, Next JS, Node JS, FastAPI, Tailwind CSS, Bootstrap
- **Databases:** SQLite, MongoDB, Firebase
- **Tools:** GitHub, Babel, Webpack, NPM

EXPERIENCE

Web Developer, Mason Online Department, George Mason University, **April 23 - May 24**

- Created AI chatbots with OpenAI models, generating over 100 test assessments, cutting manual workload by 40%.
- Engineered user interfaces using React.js, Next.js, and TypeScript, enhancing user satisfaction by 30%.
- Leveraged function-calling techniques with OpenAI models to chatbot for API calls within the Canvas LMS, automating page creation and modification.
- Fine-tuned OpenAI models, improving response generation accuracy by 20%.

PROJECTS

KeyBinder - A VS-Code extension for managing keybindings, **May 24**

- Created a VS Code extension, to manage keyboard shortcuts using JS, HTML, CSS, and the VS Code API.
- Incorporated over 50 custom React.js and JavaScript shortcuts, released on the Visual Studio Code Marketplace.

NexSearch - A Search Engine with Google API, **April 24**

- Constructed a Next.js application with Tailwind CSS, integrating Google, weather, and location APIs.
- Implemented pagination for handling results exceeding 10,000 and ensured robust routing and error handling.

Netflix AI - A netflix clone with AI movie suggestion feature, **March 24**

- Developed a Netflix clone with React JS, Tailwind CSS and Firebase for user authentication and real-time database.
- Employed OpenAI model (turbo3.5) for movie recommendations based on user input in over 100 languages.

Hungry Hub - Food Ordering System, **December 23**

- Designed a Food Ordering System with 4 food categories and 25+ dishes using React JS, Node.js, Tailwind CSS.
- 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 plant disease identification system using AlexNet, achieving 94% accuracy.
- Enabled farmers to identify crop diseases and select appropriate pesticides, reducing crop loss by 40%.

Gas Leakage Detector using Arduino, **July 19 - November 19**

- Built a gas leakage detector using Arduino and MQ5 sensor, identifying leaks with 95% accuracy.
- Integrated lcd display and buzzer for providing timely alerts and preventing potential hazards.

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

- Placed 3rd in university-level hackathon hosted by CS department for developing a campus recruitment portal.
- Secured 6th position in engineering clinics Expo for developing gas leakage detector.