

JAIYANTH LAKUMARAPU

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EDUCATION

George Mason University, Fairfax, Virginia, USA,
Masters in Computer and Information Sciences

May 24

Vellore Institute of Technology, Amaravati, Andhra Pradesh, India,
Bachelor of Technology in Computer Science

May 22

SKILLS

- **Languages:** JavaScript, HTML/CSS, TypeScript, python
- **Frameworks and Libraries:** ReactJS, NextJS, NodeJS, FastAPI, Express, Mongoose, Tailwind CSS, Bootstrap
- **Databases:** SQLite, MongoDB, Firebase
- **Tools:** GitHub, Webpack, NPM, Postman, Figma
- **Data Visualization and Testing :** Recharts, Jest, React Testing Library
- **Cloud Technologies :** AWS
- **IDE :** VS Code, Eclipse, Pycharm

EXPERIENCE

Web Developer, George Mason University, VA, USA,

March 24 - May 24

- Built 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.
- 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, integrating Google, weather, and location APIs.
- Implemented pagination for handling results exceeding 10,000 and ensured robust routing and error handling.

Netflix AI - netflix with AI movie suggestion feature,

March 24

- Built a Netflix-like platform with ReactJS, Tailwind 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 Order System with 4+ food categories using MVC architecture React JS, Node.js, Tailwind.
- Integrated backend services with REST APIs, Firebase authentication, and MongoDB for database management.

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 the CS department for developing a campus recruitment portal.
- Secured 6th position in engineering clinics Expo for developing gas leakage detector.