

# JAIYANTH LAKUMARAPU

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## EDUCATION

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**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

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- **Languages:** Java, Python, JavaScript, HTML/CSS, TypeScript
- **Frameworks and Libraries:** React JS, Next JS, Node JS, Express, FastAPI, Tailwind CSS, Bootstrap
- **Databases:** SQLite, MongoDB, Firebase
- **Tools:** GitHub, Babel, Webpack, NPM, Postman, Docker
- **Data Visualization and Testing :** Recharts, Charts.js, Jest, React Testing Library

## EXPERIENCE

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**Web Developer, George Mason University, VA, USA, March 24 - 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.
- Fine-tuned OpenAI models, improving response generation accuracy by 20%.

**Front End Software Engineer, Intern, Green Buds Technologies, India, October 21 - May 22**

- Worked in a cross-functional team to Develop a responsive e-commerce SPA with React, NodeJS, and MongoDB.
- Boosted performance by 24% using reusable components, lazy loading, and React Memo.
- Built a dynamic admin dashboard with Recharts for real-time visualization.
- Contributed to development of a comprehensive UX library with React and Redux for efficient user interfaces.

## PROJECTS

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**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

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

## ACHIEVEMENTS

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- 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.