

JAIYANTH LAKUMARAPU

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SUMMARY

Software Engineer with over 2 years of experience in full-stack web development and testing. Proficient in ReactJs, NodeJs, Python, and cloud services like AWS. Expertise in data modeling, database management and data visualization. Seeking to contribute my skills in a collaborative and innovative team environment to contribute to innovative projects.

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:** Java, Python, JavaScript, HTML/CSS, TypeScript
- **Frameworks and Libraries:** ReactJS, NextJS, NodeJS, Express, FastAPI, Flask, Django, Tailwind CSS
- **Databases:** SQLite, MongoDB, Postgres, Firebase
- **Tools:** AWS, GitHub, Babel, Webpack, NPM, Postman, Docker
- **Data Visualization and Testing :** Recharts, Charts.js, Jest, React Testing Library
- **Operating Systems:** Linux, Windows

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%.

Software Engineer, Green Buds Technologies, AP, India, **June 20 - May 22**

- Worked in a cross-functional team to develop an ecommerce SPA with React, NodeJS, MongoDB, and Recharts.
- Utilized Lighthouse to monitor UI performance, boosting it by 24% with multiple techniques like lazy loading, etc.
- Created detailed test documentation, including test plans, test cases, and test reports.
- Contributed in manual testing and in developing automated test suites using Playwright for efficient testing.

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 RESTful 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%.

CERTIFICATIONS

- 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.