

Vamsi Krishna V

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Technical Skills

Backend/Frontend React JS, REST API, Fast API, Python, C++, JavaScript, Node JS, HTML, CSS, Django, JQuery, MUI, DOM.
DB/Cloud/Deploy SQL, MongoDB, Dockers, Jenkins, AWS/Azure Fundamentals, NSSM, Networking.
Technology/Software Linux, ML/AI Fundamentals, Git, Visual Studio, PyCharm, Postman, Jira, BitBucket, Confluence.

Work Experience

Nov'25-Present **Engineer I - SDE 3, American Airlines.**

- Developed scalable and high-performance web applications using Next.js with server-side rendering (SSR), improving application performance, SEO, and user experience.
- Designed and implemented microservices-based architecture, enabling independent service deployment, better scalability, and improved fault isolation.
- Built robust backend services and RESTful APIs using Django and FastAPI, ensuring efficient data handling and high throughput.
- Integrated frontend and backend systems with secure authentication mechanisms and seamless API communication.
- Collaborated closely with cross-functional teams including product, QA, and business stakeholders to deliver reliable, production-ready solutions.

Aug'22 - Nov'25 **Software Development Engineer, Maxlinear Technologies.**

- Led the frontend development using React.js, designing the application with the MVC pattern and integrating TypeScript for type safety. Utilized Material-UI to create a responsive web page, enhancing user engagement and experience which increased user engagement metrics and customer attraction by 30%.
- Developed native GUI applications using Python's wxPython module, applying Object-Oriented Programming (OOP) concepts extensively.
- Designed and developed backend services using FastAPI python, ensuring efficient and scalable application.
- Automated testing processes with Python, creating and managing test infrastructure and scripts to ensure quality and reliability.
- Worked on Dockers to build CI/CD pipelines, streamlining the build process and reducing deployment times by 35% while effectively managing docker-based environments.

Internship

Jan-Jul'22 **Software Intern, GE HEALTHCARE, Bangalore.**

- Worked on Java and Microservices to upgrade legacy software to meet modern developments, that also includes debugging and updating the dependent software tools on Linux systems to adapt to the upgrades.

Certifications

Mar'22 Microsoft Azure Fundamentals.
Sep'21 Cisco-Netacad: Networking Essentials.
Feb'21 Coursera: Accelerated Computer Science Fundamentals.
Sep'21 Cisco-Netacad: Programming Essentials in Python.

Education

2018 - 2022 **Amrita School of Engineering, Coimbatore.**

- Bachelor of Technology (First-Class with Distinction) in Electronics and Communication Engineering.

Projects

Jan-Feb'21 **Chat-list using LRU Cache.**

- Implemented a chat application chat list using Least Recently Used Cache.
- When a message from a new chat arrives, it will be inserted at the top of the chat list. If the message is from an existing conversation, then it will update the chat position to the top.

Nov-Dec'19 **Multi-User GUI Chat Application.**

- Built a reliable and secure Chat-Application which can perform a multi threaded server client chat application based on Python socket programming using Transport Control Protocol (TCP).
- GUI [Graphical user interface] is displayed by using a module called Tkinter.

Jan-Mar'20 **Stress Detection using Thermal images and facial camera.**

- To monitor the stress level by thermal images and facial camera.
- The stress level is calculated with the help of eyebrow contraction using Machine Learning.
- The second method is detection of stress by generating a body heat map with the help of CNN.

Academic Achievements

- 2022 Published Conference paper on Pothole Detection Approach Based on Deep Learning Algorithms at Springer.
- 2019 Finalists in Front-end Desarallo Web development competition during ANOKHA-2K19.
- 2018 Selected for a STEMFORCE Mentorship program organized by UNHERD at SALESFORCE Company.

Extra-Curricular Activities

- 2020 **Public Relations Manager.**
 - Worked as Public Relations(PR) Manager during ANOKHA- 2020(National level Techfest-Amrita Vishwa Vidyapeetham).
- 2020-2021 **LIVE-IN-LABS(LILA).**
 - Stood among top 10% who got Selected for LILA(LIVE-IN-LABS) team in Amrita Vishwa Vidyapeetham.