BALAJI V

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Emerging Computer Science Engineer proficient in various coding languages with strong interpersonal skills. Adept at handling responsibilities independently and excelling in team problem-solving. Seeking a long-term position to contribute to and grow with an organization while demonstrating exceptional teamwork, versatility, and enthusiasm for learning new technologies. Committed to continuous improvement, diligence, and staying current with the latest industry developments.

Skills

- Python | Java | C ++ | JavaScript | Networks | React | MySQL | MongoDB | Data Science | ML
- Git | Artificial Intelligence | Frontend | UI/UX | Cloud Computing | Docker | Cyber Security | Fast API

Experience

Intern- Fortinet

Automation Developer Intern

Fortinet Technologies India Pvt Ltd ,

Bengaluru, Karnataka ,

Jan 2024 - July 2024 .

Key Responsibilities:

- Developed an automation tool to streamline firewall **troubleshooting**, significantly reducing the time and effort required by engineers.
- Designed and implemented a responsive and user-friendly frontend using **Vue.js**.
- Built and maintained a robust backend with **FastAPI**, ensuring efficient and reliable API endpoints.
- Integrated **Python** scripts to automate complex troubleshooting tasks, enhancing the tool's functionality.
- Utilized **SQL** for effective data storage .
- Collaborated with cross-functional teams to ensure seamless integration and deployment of the automation tool.
- Applied **DevOps** principles to automate the deployment process, improving workflow efficiency.
- Developed the tool in Linux server by using **Docker.**
- Additionally, created an individual tool to automate IPsec troubleshooting, further refining my full stack development skills.

Technologies Used:

- Frontend: Vue.js
- Backend: FastAPI
- Programming Languages: Python, SQL
- DevOps Tools: Docker

Education

Amrita School Of Engineering	Agaram Public School (CBSE)
Bachelor of Computer Science and Engineering (CGPA : 7.89)	• 12th(CBSE) - (81.2%) • 10th(CBSE) - (89.3%)

Hackathons

TECHgium at LTTS office in Mysore - (Final List)	*Nov 2022 - Feb 2023*
Flipkart GRID 4.0 - Level -1	*Feb 2022*
Codegoda 2022	*June 2022*

Projects

Yelp Review Analysis using ML Algorithms and MongoDB   *Jan 2023 - Feb 2023*
- we collected data to review and pre-processed and extracted the features.
- Implemented multiple ML algorithms for review analysis, achieving accurate classification results.
- Added model with backend of MongoDB.

Knowledge Graph for Medical Prescription Reasoning   *Nov 2022 - Feb 2023*
- During the **TECHgium Hackathon** at the LTTS office in Mysore, I led a pivotal project where we created a robust knowledge graph system. Our work involved performing advanced reasoning on a substantial medical dataset, encompassing symptoms, treatments, patient attributes (such as height and gender),.more

React Portfolio Project   *Feb 2022 - Dec 2022*
- Achieved proficiency in **React framework** and **Node.js** API development through online bootcamps and self-guided learning, resulting in the successful completion of a portfolio project.

AI-Powered Web Protection   *Feb 2022 - Dec 2022*
- Built a machine learning-based web application firewall prototype to detect and block malicious **HTTP** requests.

GPS Based Vehicle Tracking System Using Arduino   *Nov 2022 - Dec 2022*
- Developed Arduino-based GPS vehicle tracker for real-time location monitoring.

EHR using Blockchain and Cloud   *Jan 2022 - March 2022*
- Built healthcare portal leveraging cloud storage and hash functions (inspired by blockchain) to securely manage patient data

Certificates

NSE - 4   *Jan 2024- March 2024*
- Firewall, Fortigate , HA, Network Security,VPN,SD-WAN, Routing , Secure remote Access , Authentication.

AWS Academy Graduate - AWS Academy Cloud Foundations   *Dec 2023- Jan 2024*
- AWS Architecture , AWS Cloud , AWS Core Services

AWS Academy Graduate - AWS Academy Cloud Architecting   *Jan 2024-Feb 2024*
- Architecting Solutions On AWS, AWS Cloud Best practices, Building Infrastructure On AWS

Google Digital Marketing   *Jun 2022 - Jul 2022*

Web-development Bootcamp, Data Science Bootcamp, Python Bootcamp.

Publications

ANIMAL INTRUSION DETECTION USING YOLO V8 AND RASPBERRY PI(IEEE)   *ICACCS 2024*
Developed an animal intrusion detection system using YOLO v8 and Raspberry Pi to aid farmers by accurately identifying and alerting them of potential threats. This project involved data collection, model training, and real-time monitoring to enhance agricultural security.

RIP VASED KNOWLEDGE GRAPH CONSTRUCITON FOR PRESCRIPTION REASONING (IEEE)   *ICCCNT 2024*
Developed a Medical Knowledge Graph using a Reasoning Implementation Path (RIP) to enhance diagnosis accuracy through prescription-based reasoning, achieving improved performance and interpretability with lower computational costs.