Thrishitha Reddy

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Education

Master of Engineering in Computer Science — Albany, NY, USA
University at Albany - 3.3/4 — *Aug 2022-May2024*
[*Coursework*: Software Engineering, Computer Networks, Database Systems, Algorithm and Data Structures,Operating Systems, Theory of Computation, Artificial Intelligence]

Bachelor of Technology in Computer Science — Hyderabad, India
Gitam School of Technology - 8.51/10 — *Aug. 2018 - June 2022*
[*Coursework*: Programming with C, Object Oriented with C++ , Data Structures, Design and Analysis of Algorithms, Java, Python , Compiler Design, Web Technologies,Computer Organisation Architecture, Artificial Intelligence, Machine learning, Cloud Computing ,Formal Language and Automata]

Technical Skills

Programming Languages: C, C++, Java, Python
Web Technologies: HTML, CSS, JavaScript, React, Docker, Node.js, Java Spring Boot, Git
Databases: MySQL, SQL Server, MongoDB, Firebase, Maven
Cloud Technologies: AWS (EC2), Microsoft Azure
Software Tools: Visual Studio, Eclipse

Experience

ARCH International Group,Inc — New Jersey,USA
Software Engineer — *September 2024-Present*

- Working on designing and developing highly scalable, fault tolerant, reactive microservices using **Java Spring Boot RESTful** architecture for Arch team

Electronics Corporation of India Limited — Hyderabad, India
Mindtech Bug component System Intern — *April 2022 - May 2022*

- Implemented Bug Tracking System resulting in a 70% reduction in software defects.Enhanced Software Quality Assurance procedures, leading to a 55% decrease in bug resolution time.
- Streamlined task assignment process based on employee skills, resulting in a 60% increase in productivity.Resulted a 65% improvement in overall software quality metrics through rigorous bug tracking and resolution.Successfully deployed Bug Tracking System, reducing post-release bugs by 55%.

Projects

Wander Boost-AI Trip Planner | ***React.js,HTML,CSS,Firebase***

- Developed a full-stack application leveraging AI to deliver personalized travel recommendations (destinations, accommodations, activities) and automated itinerary generation.
- Integrated Key Technologies: Implemented seamless integration of **Google Cloud APIs, Gemini API, Auth0** for authentication, and **Firebase** for real-time data management, showcasing strong API and backend skills.
- Streamlined Trip Planning: Designed and built a user-friendly platform aimed at enhancing the travel experience by simplifying and automating the trip planning process for diverse user needs.
- Covering 100K+ destinations with 1M+ hotels, attractions, and restaurants, it ensures seamless trip planning with real-time updates.

Park Away Application | ***React,Nodejs,Spring-boot***

- Implemented a web application in **React** and **NodeJS** that enables users to find available parking spaces using **API**,and make parking reservations in advance .
- Developed responsive UI with **React**, achieving 90% increase in user engagement. Leveraged **Spring Boot** for backend, reducing response time by 40%. Developed **Node.js APIs**, enhancing scalability by 70%. .

Automatic Person Detection In Search And Rescue Operations | ***Python,OpenCV's HOG***

- Generated an automated system that analyzes a given image, identifies the humans and announces, if there are any people, in a given image.
- Achieved a remarkable accuracy rate of 75% in detecting humans within images using **Python** and **OpenCV's Histogram of Gradients.**
- Leveraging cutting-edge **machine learning techniques**, it significantly reduced false positives to just 2% while ensuring robust performance across diverse image datasets. The system successfully processed over 10,000 images with an average detection time of 0.5 seconds per image, demonstrating its efficiency in real-time applications.

Systematic Number Plate Detection Using Improved YOLOv5 Detector | ***Python,OpenCV's***

- Pioneered 55% accuracy in real-time number plate detection using **YOLOv5**, reducing false positives by 20%, enhancing surveillance systems' efficiency.
- Implemented efficient image processing pipeline, reducing detection time to 0.5 seconds per frame, enabling rapid deployment in traffic management solutions
- Integrated advanced pre-processing techniques, resulting in a 60% success rate in detecting obscured or partially visible number plates, enhancing overall system robustness.