Pranith Varma Appani
308 W State St, Springfield M0 65806 | Pranithvarma503@gmail.com |417-227-8009 |
https://www.linkedin.com/in/pranithvarma/

Education

Master of Science in Computer Science ***Graduated: Dec 2023***
Missouri State University, Springfield, Missouri

Bachelor of Technology in Computer Science and Engineering ***Graduated: May 2021***
Vardhaman College of Engineering, Hyderabad, India

Diploma in Civil Engineering ***Graduated: May 2018***
VNR Vignanajyoti Institute of Engineering and Technology, India

Work Experience

Software Engineer ***Jan 2022 – Jul 2022***
CYIENT ***Hyderabad, India***

- Performed Network Virtualization Using Metasolv M6 and IMS.
- Performed FTTH and FTTX Networks.
- Implemented Terminal to PON and PON to FDP Cross-Connects.
- Fiber to the Home (FTTH) Access Network based on GPON.
- Managed Splice Docs, Early Release, and Audits using Metasolv M6 For MetroNet Inc.
- Documented Network Integration and validation tasks using MS Excel and Word.

Intern ***Aug 2020-Sep 2020***
The Sparks Foundation ***Remote***

- Developed a Payment Gateway Integration website.
- Utilized PHP, JavaScript, HTML, and CSS for web development.
- Implemented seamless integration of the payment gateway into the website.
- Created a user-friendly and responsive interface for enhanced user experience.
- Ensured secure and efficient payment processing through robust coding practices.
- Generated comprehensive documentation detailing the integration process.
- Documented codebase and provided clear instructions for future maintenance.
- Tested and debugged the payment gateway to guarantee smooth functionality.

Skills

- Programming languages (Python, Java, Node JS, C, Scala)
- Web Development & Designing Tools (HTML, CSS, PHP, JavaScript)
- SQL Databases (MySQL, RDBMS)
- Cloud Services (Microsoft Azure)
- NoSQL Databases (MongoDB)
- Integrated Development Environments (NetBeans, IDE 8.2, Eclipse, IntelliJ Idea)
- Version Control System (Git, GitHub as hosting service)
- Network Planning Tools (Metasolv, IMS, CCNA)

Projects

Analysis of Plane Accidents Using Deep Learning

- Collected data from historical aircraft incident datasets.
- Ensured data integrity through preprocessing methods.
- Developed and trained deep learning models with TensorFlow and Keras.
- Implemented regression layers, pattern recognition, and feature extraction.
- Optimized models through hyperparameter tweaking and rigorous training.
- Utilized dimensionality reduction and feature selection.
- Aimed to enhance aircraft safety with real-time incident identification.
- Implemented the project using Scala and Python.

Path Planning using Metaheuristics Search Algorithms:

- Solved simplified path planning problem with Genetic Algorithms (GA), Particle Swarm Optimizations (PSO), and Ant Colony Optimizations (ACO).
- Conducted performance benchmarking through simulations in various scenarios.
- Determined the best-performing algorithm.

Text Analysis Tool:

- Developed an end-to-end thematic and sentiment analysis tool.
- Automated the discovery of trends and hidden patterns in texts.
- Eliminated the need for manual text analysis.

FuelUp - Android Application:

- Undergraduate academic project.
- Objective: Online Fuel Delivery.
- Team Size: 3 members.

- Tools Used: Android Studio, XML, Java.

CP-ABE Scheme for Encrypted Cloud:

- Undergraduate final semester academic project.
- Developed a web server application for secured cloud.
- Achieved elimination of cyber attacks, e.g., DDoS.
- Team Size: 3 members.
- Tools Used: Java, Tomcat, MySQL.

Certifications, Awards and Activities

- **CCNA**: Introduction to Networks - Cisco.
- **Python Data Structures** - Coursera WBME6KHNB2VB.
- **Programming in C#**: A comprehensive approach to C# Fundamentals - Coursera ZZVFURKDBN47