

VIJAY THAKKALLAPALLY

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University of Florida | GPA : 3.55/4.0

Jan 2023 - Dec 2024

Master of Science in Computer Science

Gainesville, FL

Courses: NLP, DataBase Management Systems, Analysis of algorithms, Distributed Operating Systems

VNR Vignana Jyothi Institute Of Engineering and Technology | GPA : 9.02/10.0

Aug 2018 - Jun 2022

Bachelor of Technology in Computer Science Engineering

Hyderabad, India

Courses: DSA, Computer Networks, Java, OOPS, Software Engineering, cloud computing

TECHNICAL SKILLS

Languages & Databases: Java, Python, C, C++, JavaScript, C#, HTML, PHP, SQL, MySQL, NoSQL, Postgres SQL, MongoDB

Web and Cloud : Angular, ASP.NET CORE, HTML, Node JS, React JS, Redux, RESTful API, SpringBoot

Other Technologies: Postman, Pandas, numpy, Android Studio, Github, Git, Docker

WORK EXPERIENCE

Software Engineer | University of Florida

Apr 2023 - Current

- Led the development of advanced crop modeling techniques under Dr. Charlie Messina's mentorship, utilizing sophisticated tools like Easy Pheno Optimizer and NelderMead Optimizer to refine predictive accuracy.
- Significantly enhanced crop yield predictions, achieving a 12% improvement in accuracy through advanced Python programming and comprehensive analysis of crop interactions with varying weather conditions and soil types.
- Pioneered the implementation of innovative crop management strategies, leading to a 20% raise in agricultural yields by optimizing botanical characteristics tailored to specific environmental conditions.

Software Engineer | DarwinBox Digital Solutions Private limited, India

Jan 2022 - Dec 2022

- Served as full-stack developer, enhancing the company's HR software with Node.js and Java, achieving a 20% improvement in functionality and customer experience. Led front-end and back-end developments, collaborating within a cross-functional team.
- Designed and executed comprehensive unit testing scenarios using Java, leading to a 30% increase in code coverage. This initiative significantly enhanced the robustness and reliability of the codebase.
- Integrated and deployed APIs on AWS cloud via CI/CD pipelines, resulting in a 30% reduction in deployment time.
- Collaborated within cross-functional teams to prioritize code quality and integration in the MVC ecosystem, resulting in a 20% escalation in feature delivery rate.

Software Development Intern | DarwinBox Digital Solutions Private limited, India

Oct 2021 - Jan 2022

- Played a pivotal role in product creation as a Product Development Specialist, actively engaged in every stage from concept to market launch. Designed initiatives that accelerated development timelines by 15%, through the implementation of innovative solutions.
- Gained extensive experience in software lifecycle management, leading efforts to enhance product features and ensure alignment with market demands. These strategic enhancements led to an increase 25% in efficiency and market competitiveness.

PROJECTS

Android Malware Detection (Web Application using Machine Learning) | Python, Flask, Keras, TensorFlow

- Developed a machine learning platform capable of predicting Android app malware with 90% precision, significantly enhancing system security and user trust.
- Engineered a user-friendly web interface to streamline malware detection, enhancing functionality and user interaction.

GatorTaxi : Ride Management System | C++, bash, Hipergator

[link](#)

- Architected a cutting-edge ride-sharing program in C++ employing Red-Black Trees and Min-Heaps, achieving logarithmic time complexity ($O(\log N)$) to enhance system speed by 20% and ensure seamless customer experience.
- This resulted in a 50% improvement in ride-matching speeds and a 40% increase in overall system throughput.
- Optimized ride request management with custom RBT and Min-Heap, yielding a 43% performance boost while synchronizing data structures for efficient ride-sharing services.

Shopping Through Live Streaming (Android App) | Java, WebRtc, XML

- Engineered an innovative Android application that integrates live streaming with a rating system, enabling real-time purchasing decisions and enhancing end-user engagement by 30%. Utilized Java, MySQL and PHP.
- Resulting in a 40% growth in user interaction and a 25% rise in transaction completion rates. Demonstrating effectiveness and efficiency in Consumer engagement and sales processes.

ACHIEVEMENTS

- Published successful apps on the **Google Play Store** with a substantial installation base approximating **2 million**, experiencing continuous growth. The apps have gained popularity, trending in over **20 countries**, showcasing their widespread appeal and positive reception.