

Vamsi Krishna Yarragunta  
DevOps Engineer Intern | Software Engineer

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## EDUCATION

**Master of Science, Information Technology and Management, University of Texas at Dallas** – GPA (3.57/4.00) Aug 22-May 24  
**Bachelor of Technology, Information Technology, National Institute of Technology, Allahabad** – GPA (7.4/10.00) Aug 16-May 20

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## SKILLS

**Programming Languages:** Go, C/C++, C#, Java, Python, MATLAB, JavaScript, Typescript, Shell Scripting, Swift, Kotlin, SQL

**Frameworks & Tools:** ReactJS, Next.js, React Native, Flutter, Spring Boot, .NET Core, Git/GitHub, SVN, ROS, Docker, Kubernetes, Jenkins, Stack Storm, Grafana, New Relic TensorFlow, OpenCV, MongoDB, Postgres, Redis, Apache Kafka, AWS

**Coursework & Specializations:** Computer Graphics, Computer Vision, Machine Learning, Object-Oriented Design, Data Structures & Algorithms, Database Management, Computer Architecture, Software Engineering, Web Development, Cloud Computing, Cryptography, Cybersecurity, Big Data, Operating Systems, Computer Networks, Internet of Things

**Certifications:** AWS Certified Solutions Architect – Associate, Salesforce Certified Administrator (SCA), Microsoft Certified: Azure Developer Associate, Scrum Fundamentals Certified (SFC)

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## WORK

### DevOps Engineer Intern – Tools & Automation, Copart Inc.

Sep 23-May 24

As a DevOps Tools and Automation team member at Copart Inc., I spearheaded infrastructure enhancements and workflow improvements through innovative automation solutions, boosting efficiency and reliability. My accomplishments include:

- **Deployment Automation and Optimization:** Streamlined Docker image deployments with Spinnaker and Kubernetes, cutting deployment times by 50% and enhancing system reliability, including efficient troubleshooting of Kubernetes pods.
- **CI/CD Pipeline Optimization:** Improved code deployment efficiency by 30% by standardizing CI/CD pipelines with GitHub Actions and Jenkins, assessed by monitoring increases in deployment frequency and reductions in failure rates.
- **System Reliability through Automation:** Reduced manual intervention by 60% and improved recovery times by 70% by implementing Stack Storm for auto-remediation, evaluated using incident metrics from monitoring tools Instana and New Relic.
- **Cron Job Automation for Software License Reporting:** Achieved a 20% cost savings on unused software licenses by automating the generation of daily license usage reports using cron jobs.

### Software Engineer – Contracts Lifecycle Management, GEP Solutions Pvt Ltd.

Dec 19-Aug 22

As an integral part of the CLM team, I focused on designing workflow solutions for the CLM team at GEP Worldwide, enhancing data query, processing, & analysis. The CLM Modules are key to ensuring the accuracy of the firm's financial information in compliance with regulations. My key contributions include:

- **Boosted Efficiency by 400%:** Designed & built a web form for comparing capital statements, resulting in a massive improvement in the CLM team efficiency (React, Java, JavaScript).
  - **Protected Confidential Data:** Developed a Python script to mask sensitive investor information across a server housing 18 databases & over 700 tables, ensuring data security.
  - **Fixed Critical Calculations:** Corrected the formula calculator for ternary expressions, ensuring the accurate functioning of major workflows within the firm.
  - **Examination Portal Shortlisting Module Engineering:** Led the design and implementation of a shortlisting module for the company's examination portal using Java, Spring Boot, and React, which streamlined the interview feedback process, reducing processing times by 50% and improving shortlisting efficiency by 40%.
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## PROJECTS

### Generative AI Projects

- **Custom Chat Agents:** Developed web app with Langchain, OpenAI, & other technologies to create custom LLM agents & mimic user writing style.
- **Voice Chat with Celebs:** Created a voice chat app with virtual celebrities using OpenAI Whisper & JavaScript.
- **Information Extraction from Resume:** Automated resume analysis with Python, KORS, & Langchain to streamline recruitment.

### Web Development Projects

- **Personal Portfolio:** Achieved a 25% improvement in page load time in this React.js portfolio project, showcasing technical skills.
- **Movie Review App:** Designed a highly responsive web application using Spring Boot for backend, increasing user engagement by implementing React for the front end and MongoDB for efficient data management.
- **Blogging Platform:** Built a RESTful blog editor and Spring MVC, incorporating seamless user authentication through Spring Security, a feature rich JavaScript text editor, and ensuring 99.9% data integrity via Hibernate's JPA annotations.
- **Image Processor 1.0:** Implemented a Java application using MVC architecture, enabling image processing with an average filter execution time of 20 milliseconds, and functionalities to blur, sharpen, sepia, grayscale, dither, and mosaic an image while generating specific images with minimal memory usage.