

# Vignan Uday Chand Chowdary Narisetty

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## EDUCATION

### University of Alabama at Birmingham - 4.0 GPA

*Master of Science in Computer Science*

Birmingham, Alabama

*Jan 2023 - Dec 2024*

### K L University - 9.57/10 GPA

*Bachelor of Technology in Computer Science and Engineering*

Guntur, India

*Jun 2017 - Apr 2021*

## PROFESSIONAL EXPERIENCE

### Software Engineer

*Akdene Technologies*

Mar 2025 - Present

*Morrisville, NC, USA*

- Designed and Developed 3 customer centric web applications using React, Node.js, HTML/CSS, TypeScript and Firebase (authentication and hosting) using Cursor AI.
- Designed and Documented 3 AI-powered products by collaborating with cross-functional teams and stakeholders.
- Automated client requirements documentation and email notifications using n8n and the OpenAI API.
- Leveraged large language models such as Mistral 7B, LLaMA2 to rapidly prototype an AI-based restaurant food ordering application.
- Designed and Implemented a hybrid image retrieval pipeline using web APIs and AI-powered generation via Stable Diffusion, ensuring dataset completeness and automating asset storage in google drive.

### Graduate Teaching Assistant

*University of Alabama at Birmingham*

Aug 2024 - Dec 2024

*Birmingham, AL, USA*

- Delivered lectures on data structures and algorithms to over 100 students, receiving 100% positive feedback.
- Developed and Implemented 10+ questionnaires, adapting course structure based on student feedback.

### Software Programmer Analyst

*Amazon*

Jun 2021 - Dec 2022

*Hyderabad, India*

- Designed and Engineered scalable carrier integration solutions using Java, Drools, XML/JSON and AWS, optimizing manifest transmission for 400M+ shipping units annually.
- Analyzed shipment traffic using SQL and internal tools, identifying critical workflows and implementing optimizations that reduced operational delays by 20%.
- Built a web application using Java, Spring Boot and React to automate carrier system configurations via dynamic XML mapping and generic manifest templates following clean code principles to deliver maintainable applications.
- Refactored legacy workflows and Migrated 10.35% of total shipment traffic to improved internal workflows, reducing configuration time by 50%.
- Orchestrated the successful launch of 12 fulfillment centers in the UK by coordinating with different stakeholders.
- Led EU carrier integrations in collaboration with Program Managers, improving operational efficiency by 15%.
- Initiated cross-carrier collaboration and Managed timelines across cross-functional teams to streamline manifest tag generation and meet deployment deadlines, reducing generation time by 12%.
- Maintained technical documentation and conducted root cause analysis to troubleshoot production issues.
- Automated manifest regeneration for failed shipments using Python scripts, AWS SQS.
- Regularly Participated in peer design/code reviews to ensure secure, scalable and maintainable coding practices.
- Conducted meetings with carriers, program managers to design standardized templates, followed up with cross-functional teams to get insights about progress and issues.

### Software Developer

*Empower.xyz*

Sep 2020 - Jun 2021

*Bangalore, India*

- Designed and Developed a housing marketplace web application using Figma, Vue.js, Node.js, MongoDB, OpenCV and JQuery, with geospatial property visualization.
- Led a team of 4 through the full Software Development Lifecycle, collaborating with UI/UX engineers, performing design/code reviews to deliver a seamless application experience.
- Implemented OpenCV algorithms to detect and map community blocks, enabling real-time availability tracking with unique block identifiers.
- Built an interactive map interface using Google Maps API for dynamic property visualization.
- Developed an automated 15-day booking management system for sellers to manage unit availability.
- Engineered reusable frontend components in Vue.js and React Native, improving performance and maintainability.
- Developed a secure document sharing application and validation workflow leveraging microservice architecture(Spring Boot), Restful API's, AWS (S3, Lambda, DynamoDB, API Gateway).

## TECHNICAL SKILLS

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**Languages:** Java, Python, C++, JavaScript, C#, .Net, TypeScript, R, SQL, Kotlin, C, Rust, HTML/CSS, Bash  
**Frameworks & Libraries:** Spring, React, Vue.js, Node.js, FastAPI, Flask, JUnit, Jetpack Compose, RESTful APIs  
**Cloud & DevOps:** AWS, Docker, Firebase, Git, Github, Gitlab, Azure, Jenkins, CI/CD  
**Databases:** MySQL, PostgreSQL, MongoDB, DynamoDB, Redshift, Microsoft SQL Server  
**Tools & Platforms:** Eclipse, Android Studio, Visual Studio, DataGrip, Jupyter, Cursor, Power BI, MS Office  
**Operating Systems:** Windows, Linux  
**Other:** Prompt Engineering, Project Management, Communication, Adaptability, Problem-solving, Debugging, Agile

## PROJECTS

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<b>Food Order Assistant</b>   AI application for food ordering	Ollama, Python, Firebase
<b>Monthly Subscription Dashboard</b>   Data Analysis Dashboard for newsletter subscription	Excel, SQL
<b>Library Management System</b>   LMS for Digital Documents, internal search	C++, JAVA, SQL
<b>Shopping List App</b>   Android App for shopping cart list	Kotlin, Jetpack Compose
<b>Filesharing App</b>   Cloud based file sharing to emails	AWS, Python, SQL, RestAPI
<b>One time Chat App</b>   Chatting app that deletes chat after every other message	Kotlin, Jetpack Compose
<b>Event List Application</b>   Interactive Web application to manage event listings	HTML, CSS, JavaScript, Vue.js
<b>Fraudulent Voting Reduction System</b>   Implemented concept of Blockchain voting	JAVA
<b>Job Scheduling Algorithm</b>   User defined Job Scheduling Algorithm for Operating Systems	C
<b>Message Cryptography</b>   Developed a console message encryption app using RSA	Python
<b>2D games</b>   Sokoban, Sudoku, Snake, 2048	JAVA
<b>Web Portfolio</b>   Custom Portfolio website for a student	Vue.js,HTML,CSS,JS

## CERTIFICATIONS

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**CCDSAP Foundation level certification by CodeChef**  
**Microsoft Technology Associate: Programming in Java**  
**Algorithms Specialization by Stanford**  
**CPA : Programming Essentials in C++ by C++ Institute CISCO**  
**Digital Marketing Certification by GOOGLE**  
**Automation Anywhere Certified RPA Professional**  
**Oracle Java certification through i-learning**

## ACHIEVEMENTS

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**Pratibha Award - for Academic Excellence By Government of Andhra Pradesh, India**  
**Winner in 25+ Inter, Intra College and National coding competitions**  
**2 Silver, 5 Bronze medals, 8 skill certificates in HackerRank.**  
**Achieved 1st rank in Code Chef Turning Cup**  
**Achieved good ranks in TCS, Google, Facebook, CodeChef programming competitions.**  
**Achieved 448th ranks in Google Kickstart programming Competition**  
**5 Star Programmer in CodeChef ( Top rating )**