

# LIKHITH VARDHAN GORUPUTI

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## PROFESSIONAL SUMMARY

Software engineer with experience developing full-stack and backend systems using Django, Node.js, React/Next.js, GraphQL, and relational and NoSQL databases. Skilled in modern backend patterns including JWT authentication, Redis caching, and WebSockets for real-time functionality, and familiar with Docker, AWS services, and CI/CD workflows.

## EDUCATION

New York University  
Master's, Computer Science

August 2025 - May 2027  
GPA: 4.0

Vellore Institute of Technology  
Bachelor's, Computer Science

September 2021 - May 2025  
GPA: 3.7

## COURSE WORK

Data Structures & algorithm, Artificial intelligence, Deep Learning, Operating Systems, Software Engineering, Natural language processing, System design.

## PROFESSIONAL EXPERIENCE

### Quadrant Technologies

Software Engineering Intern

Hyderabad

September 2023 - February 2024

- Built and deployed an AI-powered narcotics assistance chatbot using Django, React.js, MongoDB, and OpenAI API, driving a 40% increase in user engagement through intelligent conversational workflows.
- Designed and maintained CI/CD pipelines using Git and Jenkins to automate linting, code formatting, debugging checks, unit testing, build validation, and peer code reviews, improving code quality and release reliability by 30%.
- Built and versioned Docker images for frontend and backend services, and implemented CI/CD pipelines to automate image builds, testing, and deployment to Kubernetes clusters on AWS EC2, enabling scalable, reliable, and zero-downtime deployments.
- Implemented Agile development practices using Jira, actively participating in daily scrums, sprint planning, and backlog grooming, improving sprint predictability and ontime task delivery.
- Enhanced system observability by integrating Grafana for real time monitoring and logging, enabling proactive alerting and reducing incident response time by 20%.

## PROJECTS & OUTSIDE EXPERIENCE

### HireLink: Full-Stack Job Portal

- [Link to project](#)

Team lead

- Developed a full-stack job portal using Next.js and React.js, building REST and GraphQL APIs with Node.js, MongoDB, and PostgreSQL, and integrating semantic search for improved job matching.
- Used GitHub Actions for CI/CD to automate testing and validation of backend code, including changes involving Redis caching, reducing manual errors.
- Implemented JWT-based authentication and authorization, securing user sessions and APIs while reducing repeated login checks and session overhead.
- Integrated WebSockets to deliver real-time notifications, cutting redundant API polling by 40% and lowering backend request load.
- Used Aws Redis to cache frequently requested data, reducing repeated database queries by around 30% and making responses faster.

### School Management System |MongoDB, Express, React, Node.js

Vellore, TN, India

Team Lead

- Built and delivered a full stack School Management System using the MERN stack with GraphQL APIs, reducing over-fetching and improving frontend data efficiency by 30%, leading to a 30% increase in user engagement.
- Engineered backend services using Node.js, MongoDB, and PostgreSQL, deployed on AWS EC2 with S3 for storage, and integrated Apache Kafka to handle asynchronous workflows such as notifications and activity events.
- Improved code quality and release reliability by 30% through Git-based workflows, code reviews, unit testing, and CI/CD pipelines, reducing deployment failures and regression bugs.
- Enhanced system stability and availability by optimizing database queries, introducing Kafka based decoupling, and improving observability, achieving 99.9% uptime and reducing incident resolution time by 20%.

### GRAGFlow Framework Development

Vellore, TN, India

Team lead

- Increased summary accuracy for large, multilingual texts by 18% by leading the integration of LSTM and reinforcement learning for multi-hop reasoning and path detection in the GRAGFlow framework, applying agile methodologies and code review to ensure code quality and maintainability.
- Reduced hallucinations in text summarization outputs by 25% by implementing Leiden community detection and embedding-based hallucination reduction, utilizing software testing, debugging, and unit testing to validate and optimize reliability.
- Accelerated development cycles by 30% by managing project timelines and deliverables with agile project management, coordinating code reviews, and leveraging Git for version control and collaboration.
- Enhanced team productivity and code quality by applying agile methodologies, conducting regular code reviews, and providing technical support for efficient development and issue resolution.

## SKILLS

**Languages:** Java, Python, JavaScript, SQL, R, C/C++

**Full Stack:** HTML/CSS, React.js, Express.js, Node.js, Next.js, MongoDB, JavaScript

**Management:** Agile, SCRUM, JIRA

**DevOps:** Monitoring and logging, CI/CD, Orchestration, kubernetes, Docker, Jenkins

**Soft Skills:** Problem Solving, Adaptability, Attention to Detail, Communication, Teamwork

**Frameworks:** Pytorch, Keras, Scikit-learn, Tensorflow