

# Lavanya Nallabelli

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## EDUCATION

### Master of Science, Computer Science

Pace University – Seidenberg School of Computer Science and Information Systems

Expected December 2025

New York, U.S.A

### Bachelor of Technology

Krishna University College of Engineering and Technology – Computer Science

May 2022

Krishna, India

## SKILLS SUMMARY

**Languages:** JavaScript (ES6+), TypeScript, Python, Java, SQL

**FrontEnd:** React.js, Tailwind CSS, Styled Components, Bootstrap, Framer Motion, Figma

**Backend:** Node.js, Express.js, RESTful APIs, GraphQL, Redis, Socket.io

**Databases:** MongoDB, PostgreSQL (Supabase), Redis

**Authentication:** JWT, OAuth (Google), Role-Based Access Control

**Testing:** Selenium WebDriver, TestNG, Cucumber, Jest, Cypress

**DevOps & Tools:** Git, Docker, Jenkins, GitHub Actions, Postman, VS Code, Thunder Client

**Cloud & Deployment:** Render, Vercel, Firebase Hosting (ongoing)

**Others:** Agile (Scrum), Jira, CI/CD, System Design, Technical Documentation

## WORK EXPERIENCE

### Associate Software Engineer

December 2022 - January 2024

Capgemini

Bangalore, India

- Developed RESTful APIs using **Node.js** and **Express.js** for secure user authentication, profile updates, and role-based access, reducing logic duplication by **40%**.
- Collaborated with a team of 8 engineers to connect **APIs** with **React.js**-based dashboards, reducing UI load times by 30%.
- Automated functional and regression test cases using **Selenium WebDriver**, **TestNG**, and **Cucumber (BDD)**, achieving **85%** automation coverage across user flows.
- Integrated automation test suites with **Jenkins CI/CD**, reducing post-merge bug leakage by **50%** and speeding up test cycles by **3 days**.
- Participated in Agile sprints to test and debug REST APIs for real-time platforms similar to SkillSync, contributing to **15+ production releases**.

### Software Developer Intern

Mindtree

March 2022 - June 2023

- Architected a scalable food delivery system using **React.js**, **Node.js**, **Apollo Server**, and hybrid databases (**PostgreSQL** + **MongoDB**), reducing order lookup latency by **35%**.
- Implemented real-time delivery tracking using **Redis Pub/Sub** and **WebSocket subscriptions**, decreasing customer update lag by **70%**.
- Designed GraphQL APIs and role-based flows for 4 user types (Admin, Customer, Delivery, Restaurant), integrating **JWT** + **Google OAuth**, and ensuring 100% secure route handling.
- Containerized all services using **Docker Compose** and configured **GitHub Actions** to auto-test and build microservices, reducing onboarding time by **80%**.
- Created admin dashboard with charts (Chart.js) and moderation tools, mirroring production analytics panels in enterprise systems.

## PROJECTS

### Technologies– React.js, Node.js, TypeScript, PostgreSQL, Redis, Google Calendar APIs, Docker

February 2025 - May 2025

SkillSync – Peer-to-Peer Skill Exchange Platform

Andhra Pradesh, India

- Developed scalable **RESTful APIs** and database schemas for session scheduling, reviews, and messaging, supporting real-time skill matching and live bookings for 100+ users.
- Secured user authentication with **JWT**, **Google OAuth**, and role-based access control, reducing unauthorized access incidents by 90%.

### Technologies- React.js, Node.js, MongoDB, Redux, Stripe, Styled Components, Docker, Cypress

April 2025 - May 2025

E-Commerce Platform

New York, India

- Built a modular backend using **microservices** with Stripe webhooks, supporting real-time order tracking and reducing payment sync delays by 40%.
- Enhanced frontend accessibility and reusability with Tailwind CSS and Styled Components, achieving full test coverage using Cypress and Jest.