

NAGA SWAROOPA NIDADAVOLU

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EDUCATION

New Jersey Institute of Technology

Master of Science, Computer Science, (CGPA-3.5)

Newark, NJ

Graduated 2025

Gayatri Vidya Parishad College of Engineering

Bachelor of Technology, Computer Science and Engineering

Visakhapatnam, India

Graduated 2023

TECHNICAL SKILLS

- Languages:** Python(Pandas, Numpy), SQL, Java, HTML5, CSS3, JavaScript(ES6+), TypeScript.
- Frontend, Backend & APIs:** Spring Boot, React.js, Next.js, Bootstrap, TailwindCSS, Responsive UI/UX
- Backend & APIs:** Node.js, Express.js, Django, FetchAPI, RESTful API Design, Apache Kafka.
- DevOps & Cloud:** Docker, Kubernetes, Microsoft Azure, AWS(EC2, RDS, S3), CI/CD Pipelines, Jenkins.
- Testing & Authentication:** Junit, Jest, PyTest, RBAC, JWT.
- Operating Systems & Algorithms:** Windows, Linux, Data Structures & Algorithms.
- ML & GenAI:** TensorFlow, LLMs, RAG, Prompt Engineering, Chat Models, Pretrained Foundational Models, AI Clusters.
- Database & Others:** PostgreSQL, MySQL, SQL Server, Prisma ORM; Power BI, Git/GitHub; Software Development Lifecycle, Agile, Microsoft Office Suite.

WORK EXPERIENCE

Sep 2025 – Present | SOFTWARE ENGINEER INTERN | XTGlobal

Plano | Texas

- Designed and developed scalable web applications using **Java(Spring Boot)** and **Node.js(Express.js)**, building and documenting **RESTful APIs** with **Spring** to enable seamless integration across internal and third-party systems.
- Contributed to full-stack development with **React.js, Next.js, and TypeScript**, creating responsive, reusable UI components styled with **TailwindCSS** for an enhanced user experience.
- Optimized database performance in **PostgreSQL** and **SQL Server**, automated **CI/CD pipelines** with **Jenkins**, containerized applications using **Docker**, and deployed solutions on **AWS** for reliable, scalable delivery.

July 2021– June 2023 | DATA ENGINEER | M.V.V. Builders

Andhra Pradesh | India

- Designed and optimized **data integration pipelines** in Azure Data Factory and PySpark, transforming multi-source datasets into structured layers for downstream applications.
- Built automated validation and error-handling modules, improving pipeline reliability and data accuracy by 95%.**
- Developed CI/CD workflows with Jenkins, reducing manual release effort and improving consistency across environments.
- Implemented **role-based access control and encryption** to ensure secure data access, aligning with compliance standards.

PROJECTS

SUDOKO - FULL STACK PUZZLE PLATFORM ([link](#))

- Engineered an algorithmic Sudoku solver using backtracking + Minimum Remaining Value (MRV) heuristic, enabling fast, difficulty-aware puzzle generation and validation.
- Built a **React + TypeScript frontend** with conflict detection, limited hints, timers, and state persistence across reloads.
- Designed **REST APIs in Node/Fastify** with a **PostgreSQL + Prisma** schema for leaderboard storage, implementing **query-optimized ranking** for fast retrieval of top runs.
- Containerized the stack with Docker Compose, structured a **pnpm monorepo**, and implemented **health/status checks** for production readiness.
- Delivered a polished user experience with **responsive UI, leaderboard submission, and scalable backend architecture**.

JOB RECOMMENDER SYSTEM ([link](#))

- Developed an **AI-powered full-stack application** to parse resumes and recommend jobs based on skill similarity.
- Built automated resume parsing pipelines using **pdfminer, Spacy, and regex** to extract structured candidate information.
- Implemented a **cosine similarity** and token-based job-matching algorithm with **scikit-learn**, achieving 85% matching accuracy and <300ms response time.
- Designed and deployed a scalable system using **Django, PostgreSQL, React.js**, and containerized services with threshold-based recommendations ensuring ≥70% skill overlap.

ACHEIVEMENTS

Midas Core - JPMorgan Chase Virtual Experience

Forage

- Integrated Kafka(embedded + configurable) with robust JSON & error-handling deserialization for inbound financial transactions.
- Implemented transactional domain logic: sender/recipient validation, balance mutation, and persisted audit trail via TransactionRecord (JPA/H2).
- Consumed external Incentive API via RestTemplate, applying non-zero incentives idempotently to recipients and storing incentive amounts per transaction.
- Delivered REST endpoint /balance?userId= returning real-time computed balances (default 0 for unknown users) on dedicated port 33400.
- Hardened build: Maven + Spring Boot 3.2.x, explicit H2/Testcontainers versions, modern compiler settings; all functionality verified with TaskOne–TaskFive automated tests (Kafka + DB + REST).

CERTIFICATIONS

- HTML,CSS, and JavaScript for Web Developers – Coursera.
- Oracle Cloud Infrastructure 2025 Generative AI Professional Certificate.
- Prompt Engineering & Programming with OpenAI – Columbia University.