

SAI ARAVIND YANAMADALA

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EDUCATION

New York University (NYU)

Master of Science in Computer Science

May 2025

GPA: 4.0/4.0

Indian Institute of Technology, Indore (IIT-I)

Bachelor's in Computer Science and Engineering

May 2022

TECHNICAL SKILLS

Programming: Java, Python, C++, JavaScript, TypeScript, SQL

Web Technologies: HTML, CSS, JavaScript, Bootstrap, Tailwind, AJAX, jQuery, ReactJS

Frameworks: Spring Boot, Flask, Django, ReactJS, REST APIs, PyTorch, PySpark, Spark MLlib

Cloud/DevOps : AWS (EC2, EKS, RDS, S3, Elasticsearch, CloudWatch), Kubernetes (k8s), Docker, Jenkins CI

Developer Tools: GIT, GitHub, Bitbucket, Jira, Kafka, VSCode

Testing: JUnit, Mockito, Selenium, JaCoCo, Pytest, Postman, Test-Driven Development (TDD)

Certifications: AWS Certified Cloud Practitioner, Google Cloud (GCP) Certified Cloud Digital Leader

EXPERIENCE

LOCOMeX, Inc

Software Engineer Intern

Feb 2025 – Present

New York, NY

- Architected an LLM-powered ESG analysis tool using Django, integrating **Claude-3-Haiku** and **Meta LLaMA-3.2-1B** via **AWS Bedrock** with structured prompt engineering for scoring, and generating personalized compliance guidelines
- Reduced** AWS Bedrock costs by **70%** through **Redis** caching, improving response times from **5s** to under **500ms**
- Developed **full-stack** features with **responsive** components and Django **APIs** to score companies, benchmark against **S&P 500**, provide AI-powered guidelines, analyze sector trends, and deliver analytics via **AWS SES** in PDF/CSV formats

Publicis Sapient

Associate Software Development Engineer - 2

Mar 2022 – Aug 2023

Bengaluru, India

- Implemented backend features in **Albertsons** Health and Wellness application for activity and nutritional goals, supporting over **1M+ users** across Play Store and App Store utilizing asynchronous, non-blocking architecture
- Crafted and maintained **reactive API** endpoints with **Spring WebFlux** and **GraphQL** for goal sign-ups, check-ins, and reminders in the Health section, contributing to a **15% increase** in user engagement with timely notifications
- Reduced API response times and latencies by up to **30%** through **Redis** caching for frequently accessed endpoints
- Built an admin portal using **MaterialUI**, **TypeScript**, and **React** with role-based access, interactive dashboards, and scalable **REST APIs**, enabling real-time insights on 10,000+ videos segmented by language, location, and interests
- Containerized admin microservice with **Docker**, deployed to **AWS EKS** via Jenkins CI/CD, **reducing** release cycle by **50%**
- Improved **unit** and **integration testing** for backend APIs using **JUnit** and **Mockito**, increasing code coverage to **90%**
- Reduced manual testing time by 20% and defects by 15% by developing a **Cypress** based test suite with **Cucumber** (BDD)

Publicis Sapient

Software Engineer Intern

May 2021 – Jul 2021

Bengaluru, India

- Implemented a cloud-based learning management system using **React.js** and **Node.js**, deployed on AWS EC2 with **PostgreSQL** via RDS and monitored with CloudWatch, achieving 99.9% uptime during a 3-month program
- Enabled secure, stateless **session** handling and robust API access protection using **JWT-based** user authentication
- Automated end-to-end infrastructure provisioning using **AWS CloudFormation**, covering compute, storage, and database resources, which reduced setup errors and cut deployment time by **60%** across dev and staging environments

PROJECTS

RentWiseNYC - Get the Facts, Rent with Confidence

[GitHub](#)

- Developed rental **search** with filters, map view, violations reports (NYC OpenData), nearby transit via **Google Places** API
- Built responsive landlord portal with rental listing **CRUD** and **AWS Cognito** auth, using Django backend and **Bootstrap** UI
- Orchestrated automated testing with **Travis CI**, ensuring **90% code coverage**, and hosted on **AWS Elastic Beanstalk**

Predictive Modeling for Solar Energy Production

[GitHub](#)

- Engineered a real-time predictive model for solar energy production with **PySpark** and **Spark MLlib**
- Designed a data pipeline to process over **500,000** records using **Apache Kafka** to stream data from three APIs into the model, optimizing the ETL process with **AWS RDS** for seamless predictions and live trend visualization in **Tableau**

WealthWave - Effortless Bill Scanning and Expense Forecasting

[GitHub](#)

- Spearheaded a serverless expense analysis and forecasting web app with autonomous bill digitization, eliminating manual entry leveraging **AWS Textract**, **Lambda**, **API Gateway**, **OpenAI API**, achieving **98%** OCR extraction accuracy