

SAI ARAVIND YANAMADALA

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EDUCATION

New York University (NYU)

Master of Science in Computer Science

Key Courses: Analysis of Algorithms, Machine Learning, Cloud Computing, Software Engineering

May 2025

CGPA: 4.0/4.0

Indian Institute of Technology Indore (IITI)

Bachelors in Computer Science and Engineering

Key Courses: Optimization of Algorithms, Advanced Algorithms, Operating Systems, Parallel Computing

May 2022

CGPA: 3.3/4.0

TECHNICAL SKILLS

Programming: Core Java, C++, C, Python, HTML, CSS, TypeScript, React.js, SQL

Frameworks: Spring Boot, React.js, Django, pytest, JUnit, Mockito, RESTful APIs, Postman, Apache Kafka, Spark

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

Competencies: Data Structures and Algorithms (solved 350+ algorithmic tasks on LeetCode), JEE, Object-Oriented Programming (OOP), OS, Linux, Agile, Scrum, Microservices Architecture, Test-Driven Development (TDD), AJAX, MySQL, SDLC, Prometheus, Grafana, Maven, Version Control System, Relational Databases, MVC, Jira, BitBucket, Design Patterns

EXPERIENCE

Publicis Sapient

Associate Software Development Engineer - 2

May 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
- Collaborated to develop critical **frontend** and **backend** features for PSSstream, a **SPA** based video streaming web app
- 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%**
- Developed **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)

LOCOMeX, Inc

Software Engineer and Data Science Intern

Feb 2025 – Present

New York, NY

- Developed ESG scoring features in Django with asynchronous PDF extraction and LLM processing, integrating **Claude 3 Haiku** and **Meta LLaMA 3.2 1B** via **AWS Bedrock**, improving response time **by 35%** and enabling real-time AI evaluation
- Engineered report export features for PDF and CSV formats with document and score history tracking, allowing users to retrieve past ESG evaluations while automating report delivery via **AWS SES** for seamless communication

PROJECTS

RentWiseNYC - Get the Facts, Rent with Confidence

Django, JavaScript, PostgreSQL, Bootstrap CSS, AWS

Spring' 24

🔗 [GitHub](#)

- Implemented search and filtering with an interactive map view, integrating NYC OpenData for bedbug reports, and building violations, along with **Google Places API** to deliver transportation insights within a 5-mile radius
- Orchestrated automated testing with **Travis CI**, ensuring **90% code coverage**, and hosted to **AWS Elastic Beanstalk**

Predictive Modeling for Solar Energy Production

BigData, Spark, MLlib, Kafka, AWS RDS, Tableau

Spring' 24

🔗 [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 **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

Flask, Python, NoSQL, JavaScript, AWS

Fall' 23

🔗 [GitHub](#)

- Spearheaded WealthWave, a serverless expense analysis and forecasting web app with autonomous bill digitization to eliminate manual entry leveraging **AWS Textract**, **OpenAI APIs**, **AWS Lambda**, achieving **98%** OCR extraction accuracy
- Architected **RESTful APIs** using Lambda and **API Gateway**, enabling robust CRUD operations with **DynamoDB**

CERTIFICATIONS

• **Amazon Web Services (AWS)** Certified Cloud Practitioner (Validation ID: CL11QXB2T111E9B)

2025

• **Google Cloud Platform (GCP)** Certified Cloud Digital Leader (Validation ID: Z5IBVI)

2025