Sai Aravind Yanamadala

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EDUCATION

New York University (NYU)   **May 2025**
Master of Science in Computer Science   *CGPA: 4.0/4.0*
Key Courses: *Analysis of Algorithms, Machine Learning, Cloud Computing, Software Engineering*

Indian Institute of Technology Indore (IITI)   **Jun 2022**
Bachelors in Computer Science and Engineering   *CGPA: 3.3/4.0*
Key Courses: *Optimization of Algorithms, Advanced Algorithms, Operating Systems, Parallel Computing*

TECHNICAL SKILLS

Programming: Java, SpringBoot, C++, C, Python, HTML, CSS, TypeScript, React, MySQL

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

Cloud/DevOps: AWS (EC2, S3, Lambda, RDS, Elasticsearch), Kubernetes, Docker, Jenkins, Git

Competencies: DSA (solved 300+ algorithmic tasks on various coding platforms), Linux, Scrum, Agile, Microservices Architecture, Test-Driven Development (TDD), K8s, Object-Oriented Programming (OOPs), SDLC, OS, Prometheus, Grafana, Maven, Version Control System, Operating Systems, Relational Databases

EXPERIENCE

Publicis Sapient   **May 2022 – Aug 2023**
Associate Software Development Engineer - 2   *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
- Developed critical **frontend** and **backend** features for PSStream, a **microservices-based** responsive video streaming web application with a user subscription model, ensuring a seamless and scalable user experience
- Created robust admin landing portal, role-based access controls, interactive analytic dashboards, scalable **REST APIs** enabling real-time insights on users and **10,000+** videos segmented by language, location, and interests
- Automated **100%** of test scenarios, containerized applications with **Docker**, and deployed seamlessly to **AWS EKS** with **Jenkins** CI/CD, **accelerating** the release cycle by **50%** for the admin microservice
- Conducted **unit** and **integration testing** for core backend functionality APIs and amplified code coverage by **50%**

PROJECTS

RentWiseNYC   **Spring'24**
Django, JavaScript, PostgreSQL, Bootstrap CSS, AWS   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
- Developed a full-stack **role-based authentication** for renters, admin with landlord verification and listing moderation
- Orchestrated automated testing with **Travis CI**, ensuring **90% code coverage**, and hosted to **AWS Elastic Beanstalk**

Predictive Modeling for Solar Energy Production   **Spring'24**
BigData, Spark, MLlib, Kafka, AWS RDS, Tableau   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   **Fall'23**
Flask, Python, NoSQL, JavaScript, AWS   GitHub

- Spearheaded the development of WealthWave, a serverless web application for expense analysis and financial forecasting with autonomous bill digitization to eliminate manual entry with scalable architecture
- Deployed a OCR pipeline using **Textract, OpenAI API, AWS Lambda** achieving **98%** data extraction accuracy
- Architected **RESTful APIs** using Lambda and API Gateway, enabling robust CRUD operations with **DynamoDB**

CERTIFICATIONS

- **AWS** Certified Cloud Practitioner (*Validation ID: CL11QXB2T1111E9B*)   **2025**
- **Google** Certified Cloud Digital Leader (*Validation ID: Z5lBVI*)   **2025**