

Sai Aravind Yanamadala

☎ +1 (929) 377-4504 | ✉ y.saiaravind@gmail.com | 🔗 linkedin.com/in/sai-aravind456

EDUCATION

New York University (NYU), New York City

Sep 2023 - May 2025

Master of Science, Computer Science **GPA: 4/4**

Key Courses: Analysis of Algorithms, Machine Learning, Big Data, Cloud Computing, Deep Learning

Indian Institute of Technology (IIT) Indore

Jul 2018 - May 2022

Bachelor of Technology in Computer Science and Engineering

Certifications - AWS Certified Cloud Practitioner, Google Cloud Certified Cloud Digital Leader

TECHNICAL SKILLS

- **Programming:** C, C++, Java, Python, HTML, CSS, JavaScript (JS), TypeScript, React, MySQL
- **Frameworks:** Spring Boot, React.js, Django, Flask, pytest, JUnit, Mockito, RESTful APIs, JSON, JWT, JDBC, Cypress
- **Cloud/DevOps:** AWS (EC2, S3, Lambda, Elastic Beanstalk, RDS, Elasticsearch), Kubernetes, Docker, GitHub, Travis CI
- **Competencies:** Data Structures and Algorithms (solved 300+ algorithmic tasks on various coding platforms), Linux, Scrum, Microservices Architecture, CI/CD, Test-Driven Development (TDD), Object-Oriented Programming (OOPs), SDLC, Automated Testing, Prometheus, Grafana, Maven, Version Control System

EXPERIENCE

• Publicis Sapient

Jun 2022 - Jul 2023

Associate Software Development Engineer - 2

Bengaluru, India

PSSStream | Video Streaming Platform Fullstack

- Developed critical features in a responsive web application PSSStream for video streaming based on a user subscription model from scratch using agile methodologies, resulting in a streamlined user experience
- Engineered role-based authentication and user-friendly responsive admin dashboards, menu, and efficient CRUD APIs, achieving seamless access to video, and user data statistics that enhanced team productivity by 40%
- Automated microservice deployment with Jenkins CI/CD, cutting deployment time from hours to minutes by streamlining testing, building, and containerized deployment with Docker, EKS, ensuring faster, reliable releases
- Reduced API response times by up to 30% through Redis caching for frequently accessed endpoints, and amplified unit testing coverage from 70% to 90%, enhancing overall performance and reliability

Tech Stack - Spring Boot, Java, React.js, PostgreSQL, RESTful APIs, AWS (EC2, K8s, S3), Docker, JUnit

Albertsons | Health and Wellness Application Backend

- Developed scalable backend services using Spring WebFlux to asynchronously store user-defined activity and nutritional goals. Leveraging a non-blocking architecture and reduced response time and improved user experience
- Crafted reactive endpoints using WebFlux and GraphQL to automate goal signup, reminder emails via cron jobs, and enable data retrieval with real-time updates, resulting in faster response times and improved data accuracy
- Authored unit and integration tests to validate backend performance and resilience under heavy workloads, identifying bugs and reducing post-release incidents by 25%, leading to smoother deployments and enhanced stability

Tech Stack - Reactive Java, Spring Boot, GraphQL, Docker, Reactor Test, JUnit, Mockito

PROJECTS

• RentWiseNYC

Jan 2024 - May 2024

Django, Python, JavaScript, SQL, Bootstrap CSS, GitHub, AWS

🔗 GitHub

- Spearheaded in an agile environment to engineer a feature-rich platform that connected users with rental options in NYC providing comprehensive information about listings and landlord contact leveraging Django framework
- Streamlined rental searches and landlord management with a responsive UI and admin approval system. Automated testing and AWS deployment via Elastic Beanstalk, Travis CI/CD, achieving 90% code coverage

• Predictive Modeling for Solar Energy Production

Feb 2024 - Apr 2024

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

🔗 GitHub

- Engineered a scalable real-time predictive model for solar energy production using PySpark to process 500,000+ records, Spark MLlib for model training (RMSE: 0.23657), Kafka for live data streaming and real-time processing, AWS RDS for high availability storage, and Tableau for dynamic visualization of energy trends

• WealthWave

Oct 2023 - Dec 2023

Flask, Python, SQL, JavaScript, AWS

🔗 GitHub

- Spearheaded development of WealthWave, a financial management web application that automated bill digitization and expense analysis and predictions that enhanced user spending insights leveraging AWS cloud and GPT-4 API
- Architected a scalable solution with AWS Elastic Beanstalk, Lambda, and DynamoDB, ensuring reliable performance and improving scalability, while achieving 98% data extraction accuracy with AWS Textract

• Design and Analysis of GAN Architecture for Anomaly Detection

Dec 2021 - May 2022

Python, Keras, Deep Learning, TensorFlow, Computer Vision, IIT Indore

🔗 GitHub

- Innovated a One-Class Classifier using GANs for Abnormal event detection in videos, employing two generators and discriminator, achieving 84.8% accuracy across multiple datasets with various models and activations