

# Sai Aravind Yanamadala

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## EDUCATION

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**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

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- **Programming:** C, C++, Java, Python, HTML, CSS, TypeScript, React, MySQL, PostgreSQL
- **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, GitHub
- **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, Operating Systems

## EXPERIENCE

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### • Publicis Sapient

Associate Software Development Engineer - 2

Jun 2022 - Jul 2023

Bengaluru, India

#### PSSstream | Video Streaming Platform Fullstack

- Developed critical features in PSSstream, a responsive web application for video streaming, based on a user subscription model from scratch using agile methodologies, to ensure a streamlined user experience
- Engineered role-based access, admin portal, analytic dashboards, REST APIs enabling real-time insights on users and 10,000+ videos segmented by language, location, and interests
- Automated testing, containerization and deployment with Jenkins pipeline, accelerating deployment cycle by 80%
- 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

#### Albertsons | Health and Wellness Application Backend

- Implemented backend features for activity and nutritional goals, supporting over 1M+ users across Play Store and App Store utilizing asynchronous, non-blocking architecture for high-throughput requests
- 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
- Authored unit and integration test suites for core backend functionality to validate performance and resilience

## PROJECTS

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### • RentWiseNYC

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

Jan 2024 - May 2024

🔗 GitHub

- Implemented advanced search and filtering functionalities with map view, enabling users to locate apartments matching specific criteria, view nearby transportation options, and access NYC OpenData reports
- Built a responsive, role-based user interface for users, landlords, and admins, featuring landlord verification, listing moderation, and a favorites list for renters, enhancing user experience and platform credibility
- Deployed with automated testing on AWS Cloud and Travis, achieving 90% code coverage as per SLA requirements

### • Predictive Modeling for Solar Energy Production

BigData, Spark, Mllib, Kafka, AWS RDS, Tableau

Feb 2024 - Apr 2024

🔗 GitHub

- Engineered a scalable real-time predictive model for solar energy production, processing over 500,000 records using PySpark and training with Spark Mllib, ensuring high accuracy and efficiency
- Integrated Kafka for real-time streaming from multiple sources into a pre-trained model for immediate predictions
- Optimized the ETL pipeline with AWS RDS and configured Tableau dashboards for immediate trends visualization

### • WealthWave

Flask, Python, SQL, JavaScript, AWS

Oct 2023 - Dec 2023

🔗 GitHub

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

### • Design and Analysis of GAN Architecture for Anomaly Detection

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

Dec 2021 - May 2022

🔗 GitHub

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