Sai Aravind Yanamadala

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EDUCATION

New York University (NYU), New York City   *Sep 2023 - May 2025*
Master of Science, Computer Science. **GPA: 4/4**

Indian Institute of Technology (IIT) Indore   *Jul 2018 - May 2022*
Bachelor of Technology in Computer Science and Engineering.

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

TECHNICAL SKILLS

- **Programming** : C, C++, Java, Python, JavaScript (JS), TypeScrpit, MySQL, HTML, CSS, React
- **Frameworks**: Spring Boot, React.js, Django, Flask, pytest, JUnit, Mockito, RESTful APIs, JSON, JWT, JDBC, CLI
- **Cloud/DevOps**: AWS (EC2, S3, Lambda, ElasticBeanstalk, RDS, DynamoDB), Kubernetes, Docker, GitHub, Travis CI
- **Competencies**: Data Structures and Algorithms(solved 350+ algorithmic tasks), Linux, Scrum, Microservices Architecture, CI/CD, Test-Driven Development (TDD), Object-Oriented Programming (OOPs), SDLC

EXPERIENCE

- **Publicis Sapient**   *Jun 2022 - July 2023*
Associate Software Development Engineer - 2   Bengaluru, India

PSStream | Video Streaming Platform Fullstack

  – Developed critical features in a responsive web application PSStream for video streaming based on a user subscription model from scratch using agile methodologies, resulting in a streamlined user experience
  – Engineered admin features, role-based authentication, and dashboards, by developing frontend UI and CRUD APIs, enabling seamless access to video and user data reports, and a 40% increase in efficiency for data visualization
  – 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, 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 - April 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, JavaScript, AWS   ⭘ GitHub

  – Orchestrated development of WealthWave, a financial management web app that automates bill digitization, expense analysis, and predictions, providing users with forecasted spending insights leveraging AWS 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, 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