

VENKATA PHANI ADITYA NUTALAPATI

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• nvp18.github.io/portfolio/

Education

University of Maryland, College Park, USA

Master of Engineering in Software Engineering

August 2023 – May 2025

GPA: 3.88/4

Gitam University, Hyderabad, India

Bachelor of Technology in Computer Science

June 2016 – June 2020

GPA: 8.61/10

Technical Skills

Programming Languages & Databases: Core Java, J2EE, Python, JavaScript, HTML, CSS, SQL, NoSQL, PostgreSQL, MySQL, MongoDB.

Frameworks & Libraries: Spring Boot, Spring Security, Spring Cloud, Hibernate ORM, Node.js, React, React Redux, Bootstrap, Material-UI, Mockito, JUnit, TestNG.

Cloud Technologies: AWS (Lambda, S3, API Gateway, DynamoDB, CloudFormation, ECS, ELB, SQS, RDS, Route 53), Docker.

Software & Tools: Git, GitHub, Jira, Jenkins, CI/CD, Postman.

Experience

University of Maryland - College of Computer, Mathematical, and Natural Sciences August 2024 – Present

Teaching Assistant

College Park, USA

- Mentored 40+ students in **Data Science and Data Structures and Algorithms** courses, simplifying complex data structures and ML algorithms.

University of Maryland - Dining Services

September 2023 – April 2024

Software Developer

College Park, USA

- Designed and developed a responsive frontend UI for an Inventory Management System using **React, Redux, and Material-UI**, improving data management efficiency by 30% and enhancing user experience with a interactive interface.
- Implemented key UI features, including a **date range selector, dynamic forms, search bar and item display in cards**, enhancing search efficiency by 40% and streamlining data retrieval.
- Developed **Excel data import/export** functionality and a **React Router-based navigation** panel, reducing manual data entry time by 50% and improving navigation efficiency for users.

PayPal (via Infosys)

November 2020 – July 2023

Java Developer

Hyderabad, India

- Designed and developed **REST API's using Java and Spring Boot** to optimize data retrieval and insertion processes, reducing processing time by 30% and enhancing system efficiency by 30%.
- Developed a **Java-based ThreadPoolExecutor** to enable concurrent processing of multiple account numbers, optimizing data retrieval across **50+ database tables** and significantly improving system performance.
- Automated back-end processes with Java and Spring Boot, enabling timely updates for **customer dashboards with 99% data accuracy** and scheduled synchronization every 2 hours.
- Optimized large payload handling by enhancing JSON serialization and deserialization using Jackson Library, achieving a **70% improvement in performance** for payloads exceeding 5 MB.
- Ensured code quality and reliability by writing comprehensive **unit tests in JUnit and Mockito** and **functional tests in TestNG**, maintaining **95% test coverage** and effective bug resolution.

Projects

SkillForge ELMS

Git

- Developed a full-stack e-learning platform using **React, Java, Spring Boot, and PostgreSQL** deployed on Amazon RDS, with secure role-based access via **JWT authentication**.
- Implemented key features including **course management, progress tracking, interactive modules, quizzes, and forums**, integrating Amazon S3 for document storage.
- Built an **admin dashboard for managing employees, courses, announcements**, and concerns, ensuring efficient operations and data management with cloud-based solutions.

Book My Appointment

Git

- Developed a **microservices-based** appointment booking system using **Java, Spring Boot, Docker, and API Gateway**, increasing scalability and boosting system performance by 20%.
- Developed a notification microservice that consumes **Kafka topics to process event-driven messages from multiple services**, sending real-time emails for **payment status, appointment confirmations, and prescription deliveries**, improving communication efficiency.

Certifications

Certificate 1 : AWS Certified Developer - Associate [View](#)

Certificate 2 : AWS Certified Cloud Practitioner [View](#)

Certificate 3 : Advanced Certificate Program in Cloud Computing [View](#)