VENKATA PHANI ADITYA NUTALAPATI

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Education

University Of Maryland, College Park, USA   **August 2023 – May 2025**
Master of Engineering in Software Engineering   *GPA: 3.83/4*

Gitam University, Hyderabad, India   **June 2016 – June 2020**
Bachelors of Technology in Computer Science   *GPA: 8.61/10*

Technical Skills

Languages: Java J2EE, Python, JavaScript, HTML, CSS, SQL,NoSQL
Databases: PostgreSQL, MySQL, MongoDB
Frameworks & Libraries: Spring Boot, Spring Security, Spring JPA, Hibernate, React, NodeJS, React Redux, JUnit, Maven, Mockito, RestAPI.
Cloud Technologies: AWS (EC2, Lambda, S3, IAM, ApiGateway, RDS, DynamoDB, SQS, SNS, KMS)
Software & Tools: Git, GitHub, Jira, Jenkins, CI/CD, Postman, Docker, Confluence.

Experience

University Of Maryland   **September 2023 – April 2024**
Software Engineer   *College Park, USA*

- Developed 10+ complex, reusable UI components with React, leveraging React Redux for state management, boosting engagement by 25%.
- Engineered 5+ highly scalable RESTAPIs using Node.js, optimizing backend communication with PostgreSQL, increasing data retrieval efficiency by 30%.

PayPal   **Nov 2020 – July 2023**
Specialist Programmer (Outsourced from Infosys)   *Hyderabad, India*

- Optimized JSON serialization and deserialization for payloads over 5 MB using custom-built services, reducing processing times by 50%
- Designed and implemented an efficient data retrieval service for 20+ related tables, utilizing optimized indexing and query tuning to reduce query times by 40%.
- Automated batch processes for customer dashboard updates using CRON jobs and Jenkins, improving data accuracy and reducing manual updates by 90%.
- Developed a polymorphic encryption/decryption feature that dynamically applied different algorithms based on customer data classes, improving data security and code flexibility.
- Collaborated with a cross-functional team of 10 developers using Agile methodologies, actively contributing to sprint planning, code reviews, and feature delivery for high-traffic applications.

Projects

Book My Consultation | *Java J2EE, Spring Boot, AWS, Apache Kafka*   Git

- Pioneered a Microservices-based Appointment Booking System using Spring Boot and Docker, optimizing scalability and deployment. Leveraged API Gateway for routing and integrated AWS S3 for secure document storage, increasing system performance by 20%.
- Designed and deployed a secure JWT-based authentication service, ensuring user access protection. Integrated AWS SES for real-time email notifications, improving communication efficiency and security for appointment confirmations.
- Implemented Apache Kafka for asynchronous messaging between microservices, improving system scalability and reducing latency by 25%, ensuring reliable real-time data streaming.

SkillForge ELMS | *Spring Boot, Java J2EE, Spring Security, AWS, PostgreSQL*   Git

- Spearheaded the backend of a corporate ELMS using Spring Boot and J2EE, enabling efficient assignment and tracking of courses for 100+ corporate users, enhancing performance by 20%.
- Devised and Executed RESTful APIs for course management, user enrollment, and progress tracking, facilitating efficient communication between the frontend and backend systems.
- Utilized Spring Security and JWT tokens to build a secure authentication and authorization framework, ensuring role-based access control for administrators and learners.

Certifications

Certificate 1 : AWS Certified Developer - Associate View
Certificate 2: AWS Certified Cloud Practitioner View
Certificate 3: Advanced Certificate Program in Cloud Computing View