Prathyusha Vanga

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EDUCATION

University of Cincinnati	Cincinnati, Ohio
Master of Science in Information Technology	*Aug. 2023 – Dec. 2024*
Rajiv Gandhi University of Knowledge Technologies	Nirmal, India
Bachelor of Technology in Computer Science Engineering	*Aug. 2017 – July 2021*

EXPERIENCE

Software Developer   May. 2024 – Dec.2024
Current (Finco Services, Inc.)   *New York, U.S*

- Developed and maintained full-stack financial applications using Java, Spring Boot, and React.js, ensuring secure and efficient real-time transaction processing and financial data management.
- Designed and deployed microservices on AWS**,** leveraging EC2, S3, Lambda, and RDS to build scalable, high-performance, and cost-effective cloud-based solutions for banking and trading platforms.
- Implemented RESTful APIs and database optimizations on MongoDB to enable seamless and secure data exchange between financial systems while ensuring compliance with regulatory standards like PCI-DSS.
- Worked in an Agile environment**,** collaborating with business analysts, DevOps, and security teams to implement CI/CD pipelines, infrastructure as code (Terraform), and security best practices, enhancing system reliability and maintainability.

Software Developer   Aug. 2021 – Jul. 2023
Thoughtworks Inc   *Hyderabad, INDIA*

- Developed scalable Java microservices using Spring Boot and Spring Cloud Config, enabling a major e-commerce platform to process order requests. Designed and implemented REST APIs for order fulfillment, return, and cancellation.
- Implemented Kafka stream applications for data ingestion, utilizing Kafka Consumer/Producer API to connect with Google Cloud Storage and stream data for efficient real-time processing by deploying services as Google Cloud Run applications.
- Designed and developed frontend features with Angular.js and React, including order return web pages with custom form validation controls, while ensuring seamless backend integration and performance.
- Managed infrastructure automation using Terraform through mob and pair programming, and actively contributed to designing event-driven systems and ensuring continuous software delivery in an agile environment.
- Led technical decision-making, facilitated adoption of new technologies, and drove test-driven development (TDD) by writing JUnit tests, while collaborating with cross-functional teams on story grooming, performance metrics, and acceptance criteria.

Java Developer   Dec. 2019 – Jul.2021
Techwave Inc   *Hyderabad, INDIA*

- Developed a backend application as a Proof of Concept to create 3D models from input images using Python.
- Designed and implemented the frontend UI using Angular.js for smooth image data upload and rich user interaction, ensuring a seamless user experience.
- Integrated backend REST APIs with the frontend UI to build dynamic, responsive web applications, ensuring efficient data flow and interaction and utilized React.js to render data-driven components, optimizing performance and scalability while maintaining smooth user experience.
- Deployed the Flask application on Google Cloud Platform VM instances for optimized performance with NGINX.

Data Science Research Intern   Jun. 2019 – Nov. 2019
Indian Institute of Technology   *Kharagpur, INDIA*

- Developed a segmentation method using Python, computer vision, and image processing to analyze time-series Sentinel-2 data for identifying agricultural fields.
- Improved classification accuracy by generating field polygons, enabling regional-scale analysis of farming patterns and demonstrated the potential for large-scale agricultural monitoring, for better decision-making and management.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, MySQL, PostgreSQL, JavaScript, HTML/CSS
Frameworks: Spring, Angular, React, Node.js, Flask, FastAPI, PHP
Developer Tools: Git, Docker, IntelliJ, Google Cloud Platform, Visual Studio, Eclipse
Technologies and Libraries: SpringBoot, Apache Kafka, Gradle, REST APIs, Terraform, AWS, Kubernetes, MongoDB