SAI SRAVYA THUMATI

SOFTWARE DEVELOPER

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SUMMARY

Results-oriented Software Developer with over 2.5 years of experience designing, building, and maintaining large-scale infrastructure, distributed systems, and cloud-based applications. Skilled in developing, testing, and deploying high-performance software solutions with a strong focus on scalability, reliability, and efficiency. Proficient in Python, Java, Microservices, and Azure. Deeply driven to tackle complex technical challenges, pioneer innovation, and deliver impactful solutions, while leveraging expertise to drive success in cutting-edge projects at leading technology companies.

TECHNICAL SKILLS

Programming Languages: Java, Python, C, TypeScript, HTML, CSS, JavaScript

Frameworks and Technologies: Spring Boot, Node.js, Confluent Kafka, Microservices, Object-Oriented Programming (OOP), API Development, Postman, Apigee, Databricks

Database Management & Tools: MySQL, Postgres, CosmosDB, DBeaver, Azure Key Vault, New Relic, Splunk, Google Cloud Platform, Grafana

Cloud & DevOps: Microsoft Azure (Fundamentals Certified), Azure Serverless Functions, Jenkins, GitHub Actions, Pivotal Cloud Foundry (PCF), Microsoft Storage Explorer, Git

Containerization & Orchestration: Docker, Kubernetes

Machine Learning & AI: Deep Learning, Computer Vision, Natural Language Processing (NLP)

WORK EXPERIENCE

Software Engineer | Gap Inc.   **June 2022 – Present**

Performed end-to-end development, testing, deployment, and monitoring of high-impact projects, integrating DevOps practices and collaborating with cross-functional teams to deliver scalable, secure, and cost-effective solutions. Consistently ensured rapid development cycles with 0 production issues by thoroughly validating and covering all edge case scenarios.

Projects:

1. Azure Serverless Migration:

- Developed and deployed Azure Serverless Functions using TypeScript and Node.js, cutting file processing time by 90% and saving $2 million via optimized resource utilization, parallel processing and retry mechanisms.
- Built and optimized CI/CD pipelines using Jenkins and later migrated to GitHub Actions, configured Azure Workbooks for real-time monitoring, and integrated PagerDuty, New Relic, and Splunk for efficient issue resolution.
- Led knowledge transfer sessions for cross-functional teams to promote serverless architecture adoption.

2. Docker & Azure Kubernetes Service (AKS) Migration:

- Executed migration from Pivotal Cloud Foundry (PCF) to Azure Kubernetes Service (AKS), boosting deployment efficiency, scalability and cost-effectiveness.
- Developed Docker images and automated CI/CD workflows using GitHub Actions for Spring Boot-based microservice applications.
- Implemented robust monitoring and alerting mechanisms, while providing technical guidance to cross-functional teams.

3. Java & Spring Boot Version Upgrade:

- Upgraded applications from Java 8 to Java 11 and 21, including updates to Spring Boot, Gradle and other dependencies.
- Configured Jenkins agents for seamless CI/CD integration and deployed to AKS with zero downtime.
- Enhanced application performance, security, and reliability through strategic version upgrades and optimizations.

4. Reducing Vendor Dependency:

- Proposed a solution and developed a customer information retrieval system that mitigated dependency on external vendors for customer information during vendor downtimes.
- Ensured seamless shopping and order processing during outages, reducing order drop-off rates by 18%.

5. Service Hardening Implementation:

- Built an advanced error-handling system for Java, Spring Boot, and Kafka applications to prevent data loss from Messaging Queue retention limits.
- Developed a dedicated error database for reliable tracking and reprocessing, enhancing data integrity.

6. Automated Certificate Renewal & Azure Key Vault Integration:

- Automated certificate renewal process using Venafi, integrated with Azure Key Vault for secure secrets management.
- Enhanced system architecture by integrating Azure Key Vault for seamless retrieval of certificates and keys, improving compliance, security and minimizing downtime.

Product Development Intern | Darwinbox   **Jan 2022 - May 2022**

- Developed advanced CRUD applications using MVC architecture for modular, maintainable code.
- Implemented efficient server-side logic and database operations with Node.js, PHP, MongoDB, and MySQL.
- Designed responsive user interfaces with HTML, CSS, JavaScript, Ajax, and jQuery, enhancing usability and performance.

Machine Learning and Artificial Intelligence Intern | Bitsilica   **May 2021 - Oct 2021**

- Implemented web scraping techniques to gather large, relevant datasets for NLP tasks, utilizing Python and BeautifulSoup.
- Developed NLP models for news classification and sentiment analysis using advanced algorithms in TensorFlow, PyTorch, and scikit-learn.
- Conducted rigorous data preprocessing, model training, and evaluation, collaborating with cross-functional teams to integrate NLP solutions.

Computer Vision and Machine Learning Intern | SwiftAI   **Oct 2020 - Mar 2021**

- Designed and implemented neural network architectures for complex computer vision tasks, utilizing TensorFlow, Keras, and PyTorch.
- Developed and optimized a high-accuracy, real-time face detection system using deep learning techniques and OpenCV.
- Created and trained image classification models, conducting extensive model training, optimization, and data handling with large datasets.

Machine Learning Intern | Goalstreet   **Jun 2020 - Jul 2020**

- Developed a Human Resources Analytics model utilizing machine learning techniques to predict employee retention, analyse workforce datasets, and build multiple predictive models for data-driven decision-making.

EDUCATION

Bachelor of Technology in Computer Science & Engineering   **Aug 2018 - Jul 2022**
Gokaraju Rangaraju Institute of Engineering and Technology

- CGPA : 9.68 CGPA
- In the BTech 2018-2022 batch, I successfully fulfilled academic requirements with top honours, achieving a first-class distinction in the examination.

CERTIFICATIONS

- Microsoft Azure Fundamentals (AZ-900): Certified by Microsoft (Certification ID: 992233549).
- User-Centric Computing for Human-Computer Interaction: Certified by NPTEL, Indian Institute of Technology Guwahati (Topper - 85%).
- HackerRank Certifications - Java (Basic), Python (Basic), Problem Solving (Basic), SQL (Basic & Intermediate), CSS. HackerRank Profile Link: CSE_18241A05H2.

ACHIEVEMENTS

- Awarded the "Employee Appreciation Award" for outstanding contributions to Azure Serverless projects at Gap Inc.'s town hall.
- Achieved the "Certificate of Excellence" for delivering exceptional business results and exemplifying the principle of being "Customer Curious" at Gap Inc.
- Awarded the "Certificate of Excellence" for achieving outstanding business results and embodying Gap Inc.'s principles of "Try fast. Learn fast. Think big".
- Earned the "Certificate of Excellence" for achieving exceptional business outcomes through exemplary cross-team collaboration at Gap Inc.
- Awarded the "Statement of Achievement" for PCAP: Programming Essentials in Python course.
- Honoured with the "Alumnus Award for Academic Excellence" for securing the top position in B.Tech II year.
- Accomplished certifications in "Hash Code 2021 and Google Code Jam to I/O" for Women 2021.
- Completed the "Python and Machine Learning Bootcamp" by ShapeAI in collaboration with Google Developer Group Ranchi.
- Received a "Certificate of Appreciation" for the Goalstreet Coding Contest on HackerRank.
- Recognised for outstanding performance in the 5-day "T-20 Code Quest" by TechieNest Pvt. Ltd.

VOLUNTEER EXPERIENCE

- **Web Master, Computer Society of India,** Student Chapter at Gokaraju Rangaraju Institute of Engineering and Technology.
- Managed web application with a focus on timely updates and maintenance, ensuring seamless user experience.
- Facilitated student participation in technical events and activities, fostering an engaging and dynamic environment driven by a passion of sharing knowledge and continuously learning from others.