

Akhil Maddineni

Seasoned Software Engineer with 5 years of hands-on experience in software development, specializing in backend microservices development using Spring Boot, Java, and Kotlin. With a degree in Data Science, complemented by expertise in Python, NLP, and Deep Neural Networks. Demonstrated proficiency in AWS cloud technologies, enhancing software development capabilities. Extensive experience in implementing CI/CD pipelines to streamline development processes and ensure code quality. Adept at collaborating within cross-functional teams to deliver high-quality solutions that meet business objectives efficiently.

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WORK EXPERIENCE

Software Development Engineer II

September 2022 to Present

Expedia Group

- Developed new APIs enabling self-service change and cancel functionalities on the Expedia website, leveraging Spring Boot, Java, gRPC, and Camel orchestration.
- Optimized infrastructure costs for ordering services, identifying a cost-saving opportunity of \$300,000 annually and reducing S3 expenses by \$36,000 per year.
- Designed and implemented a solution to mitigate external PCI audit costs and managerial burden by introducing a Spring Cloud Gateway between ordering domain services and those handling credit card details. This streamlined the audit scope, ensuring only the gateway underwent scrutiny.

Software Engineer I

August 2020 to September 2022

NCR Corporation

- Developed micro-services to manage the life cycle of an application which includes creation of Kubernetes clusters, provisioning clusters with resources, deploying workloads, monitoring status of the applications.
- Developed an easy-to-use website, using React, TypeScript and GraphQL, for customers to onboard their applications on to the NCR Edge platform.
- Redesigned the Front-end codebase to a class-based architecture. Set up the PR build and application deployment pipeline using GitHub Actions.

Software Engineer

October 2017 to July 2018

Tata Consultancy Services

- Collaborated with Statistical Analysis team to develop a logistic regression model for incident categorization, enhancing SLA impact and increasing incident resolution ratio from 95% to 97%.
- Integrated data from various sources, conducted analytics to uncover trends, and designed visualizations for incident and service requests, leading to actionable business insights and service improvements.

EDUCATION

Master of Science in Data Science and Analytics

GPA: 3.83

Georgia State University

May 2020

TECHNICAL SKILLS

Programming Languages

: Python, Java, Kotlin

AI

: TensorFlow, Keras, scikit-learn, Generative AI, Deep Neural Networks

DevOps

: Kubernetes, Docker, GitHub Actions, Jenkins, Helm

Web Technologies

: React, Node, TypeScript, JavaScript, REST APIs, GraphQL

Database

: SQL, BigQuery, NoSQL

Cloud

: AWS EC2, ECS, EKS, ELB, Cloud Formation, Kafka

RESEARCH PROJECTS

- **Customer Segmentation for Tailored Marketing** - Employed clustering algorithms to segment customers based on behavior and demographics, enabling targeted marketing campaigns for different customer segments.
Technical Stack - Python, scikit-learn, K-means clustering.
- **Content Personalization for Online Advertising** - Personalize ad content based on user preferences to improve engagement.
Technical Stack - Python, scikit-learn, TensorFlow.
- **Emotional Analysis of Twitter Users using Natural Language Processing (NLP)**
Technical Stack - Python, scikit-learn, pandas, NLTK, Jupyter Notebook