Aishwarya Kandasamy

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Summary:

Results-driven Software Engineer with expertise in ML, cloud computing, microservices, and backend development. Skilled in designing scalable systems using Java, Python, AWS, Kafka, with a strong focus on automation, CI/CD pipelines, and optimizing system performance.

Education:

Master of Science in Data Science	August 2023 - April 2025
Illinois Institute of Technology, Chicago, Illinois	CGPA: 3.6/4.0
Bachelor of Engineering in Computer Science	June 2016 - April 2020
Velammal Engineering College, Chennai, Tamil Nadu	CGPA: 3.54/4.0

Skills:

- Programming Languages: Java, TypeScript, C++, JavaScript, Python, C
- Machine Learning & Predictive Modeling: TensorFlow, Scikit-learn
- Data Analytics & Processing: Data pipelines, Data modeling, ETL
- Cloud Technologies & Infrastructure: AWS (Lambda, EC2, S3, RDS), Kubernetes, Docker, Terraform
- Messaging & Data Processing: Kafka, RabbitMQ, APIs, Webhooks
- System Design & Data Engineering: Microservices, RESTful APIs
- CI/CD & DevOps: Jenkins, Git, Terraform, Puppet, Ansible
- Cross-Platform Development: Web development (React, Node.js)
- Interpersonal Skills: Effective Communication, Organizational skills, Problem-solving, Written and verbal communication

Work Experience:

Software Engineer | Athenahealth, Chennai, India   October 2020 - July 2022

- Developed backend services and microservices using Java Spring Boot and Node.js in a distributed computing environment.
- Integrated AI-driven analytics, reducing downtime by 35% and improving system performance with predictive models.
- Partnered with cross-functional teams to address challenges in distributed storage, leading to a 20% boost in system efficiency.
- Designed and implemented a Snowflake Data Warehouse, combining data from sources and enhancing business intelligence by 35%.
- Deployed containerized applications with Docker and Kubernetes, improving scalability and operational efficiency by 30%.
- Created dashboards and reports with Tableau and QuickSight, delivering insights that increased decision-making efficiency by 20%.
- Built ETL pipelines with Airflow, optimizing transformation processes and reducing processing time by 30%.

Software Engineer Intern | Athenahealth, Chennai, India   January 2020 - September 2020

- Developed networking protocols for real-time data transfer between devices and systems, achieving 20% faster transfer speeds.
- Automated infrastructure tasks with Terraform, decreasing manual intervention by 40%.
- Improved release cycles with Docker, Jenkins, and CI/CD practices, enhancing deployment frequency by 30%.
- Created Python-based data analytics scripts to automate data cleaning and analysis, cutting report generation time by 50%.
- Optimized SQL queries in Snowflake and Redshift, improving query performance by 25%.

Projects:

Expense Tracker   February 2025

- Engineered a full-stack expense tracker app with React, Node.js, enabling users to track and categorize expenses.
- Integrated MongoDB for secure data storage, optimizing performance for smooth and scalable user experience.

Kafka based Instagram Engagement Data Pipeline   January 2025

- Developed a Kafka-based pipeline to process Instagram engagement data, storing it in S3 for analysis using AWS Glue and Athena.
- Implemented real-time data ingestion, processing, and querying for scalable insights

Multilabel Predictions on Academic Articles   April 2024

- Developed a predictive model to assign multiple labels to academic articles, enhancing content classification across 5 labels and improving retrieval system efficiency.

Cricket World Cup Prediction System   April 2024

- Created a machine learning model to predict match outcomes for the 2023 ICC Cricket World Cup, analyzing historical performance data of 10 teams and contextual factors.

Certifications:

AWS Certified Data Engineer - Associate	March 2025
AWS Certified Solutions Architect - Associate	December 2024