**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