# Aishwarya Kandasamy

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## SUMMARY

Software Engineer with 4+ years of experience building scalable backend systems and cloud-native applications using Java, Spring Boot, and AWS. Skilled in designing resilient microservices, deploying serverless solutions (Lambda, DynamoDB), and automating infrastructure. Strong collaborator with a focus on performance, reliability, and intuitive user experiences.

## WORK EXPERIENCE

**Open Avenues**                                                                                        Jun 2025 - Present
**Software Development Engineer** (Consultant)                                                          Chicago, USA
- Built a production-ready Graph UI library using React and TypeScript to visualize large-scale relational schemas in real-time.
- Developed reusable components, integrated charting libraries, and converted metadata into dynamic visuals, and worked in Agile environment (Scrum) with Git, Jira, and weekly reviews.

**Illinois Institute of Technology**                                                                    Jan 2024 - May 2024
**Graduate Assistant**                                                                                  Chicago, USA
- Worked on an NLP research project to classify 30K+ academic articles using BERT and multi-label classification models.
- Built scalable data pipelines in Python using Hugging Face, Keras, and Dynamic ML SMOTE to address class imbalance.
- Evaluated models including neural networks, TF-IDF, SVM, Rakel ensemble methods, with BERT showing the best performance.
- Mentored undergraduate students on machine learning workflows and best practices for model evaluation and reproducibility.

**Praxio**                                                                                              Aug 2022 - Jul 2023
**Software Development Engineer**                                                                        USA, Remote
- Developed a backend microservice in Java, Spring Boot to compute task turnaround time (TAT), improving workflow visibility.
- Set up Docker and Kubernetes containers for dev, QA, reducing local setup issues and improving consistency across teams.
- Automated AWS infrastructure provisioning using Terraform, reducing manual errors and accelerating deployment by 30%.
- Redesigned REST APIs with retry logic and timeouts to ensure reliability and consistency under scale.
- Created production-grade dashboards using Prometheus and Grafana for system observability and proactive failure detection.
- Designed microservices to handle high-throughput workloads, ensuring reliability and scalability across distributed systems.

**Athenahealth**                                                                                        Jan 2020 - Jul 2022
**Software Engineer**                                                                                    USA, Remote
- Led full-stack development for a clinical work management platform used by cross-functional teams, using Node.js and React.js.
- Set up end-to-end CI/CD pipelines using Jenkins and integrated Blue-Green deployment strategies to improve release stability.
- Optimized performance of complex analytics queries across PostgreSQL and Snowflake in a multi-tenant SaaS environment.
- Followed Test-Driven Development (TDD) using JUnit, Mockito, and Jest to increase code coverage and reduce regressions.

## PROJECTS

**Plate2Purpose** (Tech Stack: React, Node.js, Express, PostgreSQL, RESTful APIs, JWT Auth, JSON, TypeScript, HTML, CSS)
- Led a team of 4 to build a real-time platform connecting food donors with NGOs, reducing waste and streamlining donations and integrated large language models LLM APIs for smart food categorization and NGO matching based on text input.
- Designed PostgreSQL schemas and secured backend with JWT authentication.

**Expense Tracker** (Tech Stack: React, Node.js, MongoDB)
- Built a finance tracking app using React, Node.js to monitor income and expenses with real-time updates and interactive charts.
- Developed secure, modular REST APIs with JWT and designed flexible MongoDB schemas to support multi-user functionality.

## SKILLS

**Languages**:        Java, Python, JavaScript, TypeScript, SQL, C, C++, Shell Scripting
**Frameworks**:        Spring, React.js, Redux, Node.js, Express.js
**Technical Skills:**  Data Structures, Algorithms, Design patterns, Software development life cycle, Object Oriented Programming
**Technologies:**      AWS, Kubernetes, Git, Apache Kafka, Spark, Hibernate, Postgresql, MySql, MongoDB, NoSQL, S3, EC2, DynamoDB, API Gateway, Cloud-native and serverless architectures

## EDUCATION

**Illinois Institute of Technology, Chicago, USA**                                                      Graduation: May 2025
Master of Science in Computer Science and Data Science                                                  CPGA: 3.6/4.0

## CERTIFICATIONS

- AWS Certified Solutions Architect - Associate
- AWS Certified Data Engineer - Associate