

Megha Kalal

M.S. Information Systems, University of Maryland | B.Tech Computer Science, PES University, India
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WORK EXPERIENCE

DWD Merchant Association

Aug 2023 - Apr 2024

Software Engineer

Dharwad, India

- Implemented real-time **POS reconciliation** logic, ensuring 100% accuracy across 300+ daily sales.
- Built a custom **inventory system** using **Excel** and **Tableau**, reducing stock outs by 40% and enabling real-time tracking.

Amazon

Mar 2021 - Apr 2023

Software Engineer

Bengaluru, India

- Built scalable **RESTful APIs** using **Spring Boot** with **user auth** and **RBAC**, reducing response time by 30%.
- Developed automated alerting with **AWS CloudWatch** and **Lambda**, improving system availability and SLA compliance by 15%.
- Created dynamic dashboards in **AWS QuickSight**, integrated with **Angular** frontend to enable real-time insights for merchants.
- Led a team of 12 in the **agile development** of an internal Wiki, reducing new hire onboarding time by 25%.
- Served as the **lead design and code reviewer** for a front-end team of 6 developers.

Delvit Solutions Pvt. Ltd.

Jan 2020 - Feb 2021

Backend Software Engineer

Bengaluru, India

- Developed 30+ **React.js** UI screens and 20+ REST APIs using **Flask** framework, on **Google Cloud** for a self-checkout system.
- Collaborated with 3 cross-functional teams to **integrate analytical tools into AWS**, reducing data extraction time by 30% and streamlining business reporting.
- Led company's big data analysis using **Google Analytics**, **BigQuery**, and **Metabase**, boosting actionable insights by 40%.

SKILLS

- Languages & Scripting:** Java, Python, C++, JavaScript, TypeScript, SQL, Bash.
- Frameworks & Libraries:** React.js, Angular, Spring Boot, Flask, PySpark, PySpark MLlib, PySpark GraphX.
- Databases & Tools:** MySQL, MongoDB, Neo4j, RESTful APIs, Git, JIRA.
- Cloud & Infrastructure:** AWS, Microsoft Azure, GCP, Kafka, Hadoop, Hive.

EDUCATION

University of Maryland

Dec 2025

Master of Science in Information Systems, Terrapin Scholar | GPA: 3.95

College Park, MD

Coursework - AI Systems, Cloud Computing and Big Data, Data Mining and Predictive Modeling, Database Management.

PES University

May 2020

Bachelor of Technology in Computer Science Engineering | GPA: 3.8

Bengaluru, India

Coursework - Data Structures, OOPs, Web Technologies, Operating Systems, Data Science, NLP, Computer Networks.

PROJECTS

Tracking Federal Spending Transparency

Jan 2025

- Built an interactive platform using **Python**, **SQL**, and **JavaScript** to visualize federal spending across agencies.
- Developed an **anomaly scoring system** to flag fund discrepancies; insights were presented to **USA Spending.gov** leadership and the federal board.

Real-Time Movie Recommendation System using Kafka

May 2025

- Built a **Kafka-based pipeline** streaming user ratings from a UI to a **PySpark backend** for real-time recommendations.
- Deployed the **Streamlit app** on cloud, enabling instant movie suggestions through a live **Kafka feedback loop**.

D-ott

Jun 2020

- Engineered a synchronized group-watching feature with real-time **audio/video sync** using **WebSockets** and custom APIs.
- Integrated a recommendation engine using **Custom Vision AI** and user profile data to enhance personalized content delivery.

ACHIEVEMENTS AND LEADERSHIP EXPERIENCE

- Runner-up**, AGA Datathon, placed 2nd among 30 teams nationwide in a federal data competition.
- Runner-up** at the second edition of **Dish-a-thon 2020**, participated by 64 teams.
- Three-time recipient of the CNR Rao Merit Scholarship at PES University, awarded to the top 10% students.
- Creative head at Delvit Solutions Engagement team, organizing multiple events for 100+ attendees.