

MAHELET KASSA

Senior Full-Stack Software Engineer | Cloud Architecture | AI/ML Systems

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PROFESSIONAL SUMMARY

Results-driven Full-Stack Software Engineer with 5+ years of experience architecting and deploying enterprise-scale cloud solutions in highly regulated environments. Proven track record of modernizing legacy systems, implementing secure microservices architectures and building production-grade applications serving millions of users. Specialize in AWS cloud infrastructure, real-time data pipelines, and AI-ready system design. Strong collaborator with expertise in Agile methodologies, technical leadership, and cross-functional team coordination.

TECHNICAL SKILLS

Programming: React.js, Angular, Java, Spring Boot, Node.js, JavaScript, TypeScript, RESTful APIs, PostgreSQL, MongoDB

Cloud & Security: AWS (S3, Lambda, RDS, CloudFormation), IAM, Network Security, Data Protection, Compliance, Cloud Migration, Microservices Architecture, Docker, CI/CD (GitHub Actions)

Other: Agile/Scrum, Scrum Master Certified, System Architecture, Full-Stack Development

EXPERIENCE

Software Engineer | Blue Cross Blue Shield of Massachusetts

April 2020 – December 2025

- Contributed to enterprise-wide migration of legacy Angular application to modern React architecture
- Collaborated closely with UX team to systematically refactor and convert each component, ensuring design consistency and improved user experience across the platform
- Designed and implemented cloud-based architectures for modernizing legacy systems using Spring Boot and TAS.
- Collaborated with cross-functional teams to develop, test, and deploy secure applications using React, Angular, Node.js, and Java.
- Managed and mentored interns: conducted technical interviews, evaluated coding challenges, guided them through project onboarding, development of best practices, and career growth.
- Contributed to the creation of monitoring tools and dashboards for API performance and data integrity oversight.

Website and Assessment Coordinator | Messiah College | Mechanicsburg, PA

August 2017 - May 2018

- Managed and maintained databases and web platforms, improving data integrity, accessibility, and user experience.

- Implemented strategies to ensure accurate and timely data collection and reporting.

Data Analytics Intern | HOPE International | Lancaster, PA

May 2017 - August 2017

- Collected, analyzed, and interpreted data to identify trends and correlations.
- Developed data-driven strategies that enhance organizational decision-making and engagement outcomes.

Information Technology Assistant | Messiah College | Mechanicsburg, PA

January 2017 - August 2017

- Diagnosed and resolved system errors, maintaining secure and reliable IT infrastructure.
- Conducted system backups and maintained documentation to ensure data integrity and compliance.

PROJECTS

Recipe finder react web app integrating Edamam API; PWA-ready, hosted on Netlify; modular components and responsive design.

Event management application: MERN stack app with real-time notifications (Socket.io), role-based authentication, and responsive UI

Full-Stack E-Commerce Platform: MERN + Redux application with complete shopping flow; deployed with AWS S3 and CI/CD pipelines.

Restaurant Reservation Platform: React + Node/Express system with Twilio SMS confirmations and automated waitlist management; focused on secure and compliant data handling.

EDUCATION

Bachelor of Science in Computer Science and Business Administration

Messiah University | Mechanicsburg, PA | Graduated 2018

CERTIFICATIONS & TRAINING

- AWS Certified Cloud Practitioner
- Certified Scrum Master (CSM)
- General Assembly – Full Stack Web Development Immersive (2019)