

Mathangi Chand

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Education

University of Western Ontario

Master of Engineering in Electrical and Computer Engineering

London, Ontario

Sept 2023 – Dec 2024

- **Specialization:** Software Engineering
- **Coursework:** Data Analytics, Machine Learning, Data Management, Brain-Inspired AI, Web Development, Cloud Computing, Project Management, Engineering Business

Anna University

Bachelor of Engineering in Computer Science Engineering

Chennai, India

Jun 2016 – May 2020

Experience

AI Trainer(Freelance)

Outlier AI

Remote, Canada

Jan 2024 - Present

- Critiqued 100+ AI responses for multimodal LLMs, driving a 15% improvement in model accuracy.
- Redesigned 50+ prompts, ensuring 99% factual correctness in generated content, and streamlined 10+ Python solutions.

Senior Software Engineer

Capgemini

Bengaluru, India

Apr 2021 – Aug 2023

- Implemented RESTful APIs for a microservices architecture using Spring Boot, and wrote unit test cases with JUnit and Mockito, increasing code coverage by 30% to ensure higher code quality and reliability.
- Developed large-scale databases (RDS) with complex relationships, optimized SQL queries and designed efficient data modeling, resulting in a 20% improvement in query performance.
- Spearheaded a complex server migration for Autosys jobs and databases, ensuring zero downtime and minimal business disruption.
- Led 40+ production release, collaborating with cross-functional teams, to ensure smooth product transitions.
- Collaborated with business stakeholders to define scalable, high-performance solutions, while contributing to code reviews to ensure coding standards, technical quality, and continuous team improvement.

Projects

Cloud Web App

- Designed and deployed a scalable web application with a database backend on Google Cloud Platform (GCP) using Kubernetes, leveraging Cloud SQL for database management and implemented high availability and load balancing across multiple nodes for optimal performance and reliability

Book Store Application

- Developed a scalable online book store using JavaScript, React, Bootstrap, and Node.js (MERN), designing a seamless user experience with secure payment integration, product catalog, and order management, with efficient AWS EC2 hosting and automated testing with Mocha and Chai

Bug Tracking System

- Built application using Java, Spring Boot, and Angular, enabling users to perform full CRUD operations on bug reports via dynamic front-end and robust RESTful APIs, with comprehensive API testing via Postman

Skills & Accomplishments

Skills: Python, SQL, Java, Spring, JavaScript, React, Angular, PostgreSQL, DB2, Salesforce CRM, Splunk, GCP, Docker, Kubernetes, Git, Linux, Scrum, Jira, Agile, ETL, CI/CD, Maven, Jenkins, Postman, RESTful APIs, HTML, CSS, HTTP, MVC, Microservices, Unit Testing, Hadoop, Kafka, Apache Spark, SDLC, Application Integration, Data Modeling, System Monitoring

Accomplishment: Awarded as a winner of the special category (by General Motors) in SheHacks+ 8