

# Tarun Thomas Eapen

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## PROFESSIONAL SUMMARY

Graduate Student majoring in CS (concentration in AI/ML) with 5+ years of software engineering experience looking for full-time software engineer roles. Proficient in **Java** and **Python**, I bring expertise in developing efficient and robust solutions. Proficient in agile scrum environments, I thrive on collaborative teamwork and excel at meeting deadlines.

## EDUCATION

**University of Wisconsin-Milwaukee**  
Master of Science in Computer Science

**Milwaukee, WI**  
Expected Graduation: May 2024

**University of Kerala**  
Bachelor of Technology in Computer Science

**Trivandrum, India**  
June 2016

## SKILLS AND COURSEWORK

**Programming Languages:** Proficient in Java, Python, SQL. Experience with C++, C, JavaScript

**Tools, Frameworks:** Spring Boot, Django, AWS, Microsoft Azure, Maven, NodeJS, React, Angular, Flask, gRPC, MongoDB, REST, OData, Docker

**Courses taken:** Data Structures and Algorithm Design, Machine Learning, Deep Learning, Data Science, Distributed Systems, Advanced Database Management Systems

## WORK EXPERIENCE

**SAP Labs India (Java, Spring Boot, SQL, JavaScript, REST)**

**Bangalore, India**

**Software Engineer**

**July 2016 – June 2022**

- Led cross-team project, designing, and developing reusable and robust **REST APIs** using **Java** and **Spring Boot** for Indian and South Korean markets to support tax and invoicing requirements, increasing adoption in these markets by 10%.
- Designed and developed **OData/REST microservices** for updating transactional data in real-time which increased invoicing throughput for customers by 45%.
- Collaborated with cross-functional teams to identify and implement necessary modifications to the database schema and optimized performance of database queries by leveraging capabilities of SAP HANA query execution engine resulting in an average 45% reduction in response time of web-based business applications.
- Designed, developed, and maintained **enterprise cloud** applications and **API gateways** for the engineering change management module.

## PROJECTS

**Work in Office Reservation System [Java, Spring Boot, NodeJS, React, Kafka, MySQL]**

**May 2023**

- Developed **Java Spring Boot-based** backend microservices for a web application that allows employers to set in-office attendance requirements and employees to reserve seats in today's flexible work environment.
- Implemented OAuth 2.0 for authentication and leveraged **Kafka** for event streaming.

**Health Club Membership Management System [Java, Spring Boot, NodeJS, React, MongoDB]**

**Dec 2022**

- Developed a highly scalable and secure web application using **Java Spring Boot** and **React** for health club users and administrators deployed on **AWS**.
- Implemented a stateless authentication strategy utilizing **JWTs** with secret management through vault integration.

**Cognitive Popularity Tracking using Sentiment Analysis [Java, NodeJS, TensorFlow]**

**April 2016**

- Mined opinions of celebrities from social media and news outlets, calculating sentiment and attributing it to corresponding entities. Used number of mentions as an index of exposure and calculated sentiment as an index of popularity.
- Sentiment analyzer and named entity recognition models from Stanford CoreNLP package were used and coded using **Java**.
- Developed a frontend using a **NodeJS** application, which uses Koa as the server framework and provides a **REST API** service to query the Elasticsearch database. This allowed for easy access and visualization of the mined data for further analysis.