

# Aman Ottakandathil

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Software Engineer with two years of experience building and deploying web applications on AWS and Azure. Collaborated in agile teams to deliver solutions, resolve complex challenges, and optimize infrastructure. Seeking a challenging project to apply problem-solving skills and technical proficiency.

## WORK EXPERIENCE

### Dexlock Technologies

Kerala, India

Software Development Engineer

Sept 2020 - Sept 2022

- Developed and maintained full-stack solutions including **enterprise web applications**, **web scraping tools**, and CI/CD pipelines, while managing and monitoring cloud and underlying hardware infrastructure.
- Collaborated with the team on **scope definition**, **effort estimation**, and **project planning**, offering key project support through the identification of specific efforts based on past experiences.
- Facilitated **knowledge transfer** sessions, created **comprehensive documentation**, and provided ongoing IT support, enabling clients and colleagues to fully understand and utilize new features.
- Supervised client **deployments**, driving a 5% reduction in deployment time by identifying improvements in the process.
- Streamlined IT infrastructure management with a load-based auto scaling system for EC2 instances, resulting in a 20% **infrastructure cost optimization** and **improved system performance**.
- Awarded **Most Valuable Player (Top 2%)** for outstanding contributions and top performance in Q4 2021.

## ACHIEVEMENTS

- Employee of the Month - Leeds United Football Club (300+ peers).
- Received 3+ Employee of the Week awards along with Hero of the Week award at The Old Bar, Leeds University Union.

## PROJECT EXPERIENCE

### LeapAnalysis

- Developed a scalable web application that uses semantic web technologies and gremlin graph traversals to query data from different sources as a single entity, eliminating the need for JOIN operations.
- Reduced data integration time by 1 to 3 years in certain cases through **decentralized data querying**.
- Designed functions in Java to perform **lazy loading** of data which reduced the memory consumption by potentially 50 percent or more depending on the data.
- Established a **cloud-native environment** on AWS for streamlined application deployment and management, leveraging Docker to ensure portability and simplify orchestration.

### Distributed Tracing Framework

- Created a Java Spring Boot framework leveraging a service mesh to **monitor network traffic**, **break down latencies of call flows among microservices** and provide **visualisation** of collected metrics.
- Investigated Kubernetes and the significance of service mesh in large scale clusters, reducing the debugging time by 50% or more depending on the complexity of the issue.
- Implemented a comprehensive testing strategy encompassing unit testing, integration testing and system testing and to guarantee the project's robustness and reliability.

### Project Management System

- Designed and implemented a project management system to track project information, status, estimated duration, work logs for employees, bugs, and tasks.
- Engineered a scalable and modern frontend using React.js, enabling faster development and easier management of UI states.
- Recognized as the **best training project of 2020** for efficient design, implementation, robust error handling, and resilience.

### Terminal Text Editor

- Engineered a terminal-based text editor, gaining an understanding of the underlying mechanisms of text editors.
- Leveraged rope data structures to improve text manipulation speed, demonstrating up to a 50% performance increase for insertion and deletion on large files.

## EDUCATION

University of Leeds, Leeds, United Kingdom

Sept 2022 - Sept 2023

Master of Science in Advanced Computer Science (Cloud Computing)

**Grade Achieved:** Distinction (Grade: 8.1)

Govt. Model Engineering College, Kerala, India

Aug 2016 – Aug 2020

Bachelor of Technology in Computer Science and Engineering

**Grade Achieved:** First-Class Honours (CGPA: 8.36)

## SKILLS

**Languages:** Java, Python, JavaScript, Bash, HTML, CSS | **Frameworks:** Spring Boot, REST, Node.js, ReactJS, Junit, Maven, Gradle, MVC, Docker, Selenium | **Cloud Technologies:** AWS (ECS, ECR, S3, EC2, CloudFormation, IAM, VPC, Lambda), Azure, VMware | **Databases:** MySQL, NoSQL, MongoDB, Elasticsearch, Amazon Athena | **Monitoring:** Grafana, Prometheus, JMeter, Gatling, Kibana | **IDE/Text Editor:** Visual Studio, IntelliJ IDEA, PyCharm, VIM | **OS:** Windows, Linux | **Version Control:** Git, GitHub, GitLab | **CI/CD** | **Agile** | **Jira**