

# Mohammed Ahamed

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## Profile

As a Systems Engineer with over 4+ years of experience in the field, I have developed a strong foundation in troubleshooting and problem-solving. I have a passion for software development and have completed several courses and projects in the field. I am now looking to make a career switch and fully focus on software development.

## Technical Skills

- **Frontend:** HTML5, CSS3, JavaScript (ES6+), ReactJS, NextJS
- **Backend:** Node.js, ExpressJS, Typescript
- **Database:** MongoDB, DynamoDB
- **Cloud Services:** AWS (AWS Cloud Practitioner certified), Heroku
- **Version Control:** Git
- **Testing:** Jest
- **Tools:** Jira

## Relevant Experience

### Jaguar Land Rover –Voice Recognition (2018 - Present)

- Successfully contributing to the development and implementation of the current and future Speech roadmap for the company's products
- Ensuring that all technical aspects are covered in the hardware and software components that need interaction with the Speech Service Layer
- Defining message sequence diagrams between different software layers
- Validating and verifying HMI requirements against development software on test rigs and various vehicle lines by completing Design Validation Tests
- Identifying and troubleshooting defects through root cause analysis and championing the delivery of fixes in subsequent software baselines.
- Conduction onsite and offsite vehicle tests and signoffs for new feature delivery.

### Jaguar Land Rover – ADAS (2020)

- Improved the accuracy and robustness of the computer vision system through extensive testing and validation on various datasets.
- Demonstrated strong aptitude for learning and mastering new technologies (Python) and various ML libraries and frameworks related to computer vision and machine learning.
- Took existing open-source algorithms and modified them to process collected from LiDAR sensors and output visual.
- Contributed to the development of industry standards and best practices in the use of computer vision for autonomous vehicles.

## Education & Training

- AWS Cloud Practitioner (2023)
- APM Project Management Qualification (202)
- University of Birmingham Bachelor of Engineering Computer Systems Engineering (2015-2018)

## Relevant Projects

**Project:** Built a Fullstack Football data web-app

Utilised Mongoose, MongoDB, Node.js, Express.js, and ReactJS to design and implement the football related webapp.

Key Responsibilities:

- Designed the database schema and implemented CRUD operations using Mongoose and MongoDB.
- Created endpoints for user authentication and authorization using JSON web tokens.
- Developed unit and integration tests to ensure the API was reliable and bug-free.
- Designed and developed the front-end to integrate the API with the website using ReactJS + CSS3.

**Project:** Built a Football RESTful API for a using AWS

This API enables users to access and manage football-related data such as fixtures and scores.

Key Responsibilities:

- Configured the AWS infrastructure to create a system that gets real-time data and stores it in a DB.
- Developed the RESTful API endpoints, implementing CRUD operations for football-related entities.

Designed and implemented the database schema using DynamoDB. Managed data storage, indexing, and optimisation for efficient data retrieval.

## Interests

Football, Videography, Photography, Content-editing, Drones, Travelling