ALI AHAMMAD

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Professional Summary

Motivated and technically proficient software developer with a strong academic foundation and hands-on experience in backend development, cloud infrastructure, AI/ML integration, and full-stack application design. Skilled in building scalable web and mobile applications, deploying containerized services, and integrating IoT devices for real-world solutions. Passionate about creating impactful systems that align with sustainability and innovation goals.

Education

- **Master of Computer Applications (MCA)**

Sree Narayana Institute of Technology, University of Kerala
2023 – 2025

Pursuing a postgraduate degree with a focus on advanced software engineering, system architecture, AI, and cloud-based solutions. Engaged in impactful academic projects involving real-time environmental monitoring, IoT integration, and backend system design using modern tech stacks.

- **Bachelor of Science in Computer Science**

CHMM College for Advanced Studies, University of Kerala
2019 – 2022

Graduated with a strong foundation in programming, data structures, and algorithm design. Completed several academic and freelance projects involving web and mobile development, laying the groundwork for further specialization in AI, cloud, and full-stack engineering.

Professional Experience

- **Intern Software Developer – AI, IoT & Django**

Serve Techno Research, Kollam, Kerala, India
2023 – 2025

Worked on real-world student and institutional projects integrating AI models with IoT systems and web applications. Developed backend systems using Django, and built device-to-cloud pipelines for data acquisition and analysis. Gained hands-on experience in deploying machine learning models, working with hardware (Arduino/ESP32), and delivering complete solutions for academic use cases.

- **Freelance Full Stack Web/ML/DL Developer**

2019 – Present

Completed 15+ academic and client-based projects involving web development (React, Django, Spring Boot), mobile apps (React Native), and AI systems (ML/DL using TensorFlow and PyTorch). Specialized in backend architecture, API integration, cloud deployment (AWS, GCP, DigitalOcean), and building data-driven systems. Regularly collaborated with students, startups, and researchers to deliver scalable and innovative solutions.

- **Programming Language Trainer**

G-Tec Computer Education, Karicode, Kollam, Kerala, India
May 2021 – September 2022

Conducted training sessions on Python, Java, and C/C++ for students preparing for academic, professional, and government exams. Designed course materials, simplified complex programming concepts, and mentored students with real-world project scenarios. Recognized for effective communication and high student satisfaction.

Projects

- **LiSQL**

Developed an open-source Python package that simplifies data extraction and merging from multiple MySQL servers and databases. Designed for data scientists and backend developers needing seamless multi-database handling.

Impact: Enabled efficient multi-source data integration in academic and freelance projects.

Tech Stack: Python, MySQL, PyPI

- **3D Face Reconstructor**

Developed a system that generates a 3D human face model from a single 2D image using advanced facial detection and depth prediction algorithms.

Impact: Facilitated realistic 3D reconstruction for research in computer vision and digital identity.

Tech Stack: Python, MTCNN, DPT, Open3D

- **EcoZync**   **(MCA Major Project)**

Designed and developed a polyglot IoT platform for environmental monitoring that integrates real-time sensor data with cloud-native infrastructure. The system utilizes Generative AI to generate actionable environmental insights and supports secure, role-based user access. Built with a multi-cloud backend using AWS and Google Cloud, the platform includes containerized microservices with Docker and Kubernetes and is globally accessible via Cloudflare Tunnel.

Impact: Delivered a scalable, multi-cloud environmental monitoring system aligned with UN Sustainable Development Goals (SDGs 3, 11, and 13), supporting real-time public health, sustainability, and climate action efforts.

Tech Stack: Arduino, React.js, React Native, Django, Spring Boot, AWS RDS & Cognito, Google Cloud AI, Docker, Grafana

- **Pandemic Controlling System**   **(BSc CS Major Project)**

Built a Django and Android-based platform to manage pandemic-related operations, enabling coordination among public users, healthcare providers, and authorities. Integrated a CNN-based test result classifier.

Impact: Supported structured communication and test kit result analysis in a multi-role ecosystem.

Tech Stack: Django, Java (Android), MySQL, PyTorch

Certifications and Training

- **IBM Data Science**   From IBM 2025
- **IBM AI Developer**   From IBM 2025
- **Data Analysis with Python**   From IBM 2025
- **Meta React Native**   From Meta 2025
- **Google Cybersecurity**   From Google 2024
- **Master in Data Science**   From SMEClabs 2023

Technical Skills

- **Programming Languages:** Python, Java, JavaScript, TypeScript, C, C++, R, Swift, Go, Scala
- **Databases:** MySQL, PostgreSQL, DynamoDB, MongoDB, FireStore, Appwrite DB, SQLite
- **Machine Learning and Deep Learning:** Scikit-Learn, TensorFlow, PyTorch
- **Computer Vision:** OpenCV, Scikit-Image, YOLO, BLIP
- **Data Analytics & Visualization:** Pandas, Matplotlib, Seaborn, Power BI, Tableau, Grafana
- **Big Data Technologies:** Apache Hadoop, Apache Spark
- **DevOps & Deployment:** Docker, Kubernetes, Git, Linux, Cloudflare Tunnel, Nginx
- **Frontend Development:** React.js, Next.js, React Native, BootStrap, Tailwind
- **Backend Development:** Django, Flask, Spring Boot, Express.js
- **Cloud & BaaS Platforms:** Firebase, Appwrite, AWS, DigitalOcean

Soft Skills

- **Problem-Solving Skill**
- **Communication Skill**
- **Teaching Skills**
- **Continuous Learning**