

# Mohammed Husamuddin

## Software Development with AI for Digitalization

Innovative and results-driven Computer Engineering student with hands-on experience in software engineering, Focused on creating scalable, AI-powered solutions that automate workflows, enhance user experience, and transform businesses. Skilled in leveraging cloud and data engineering to compound impact, with proven success in leading teams and driving innovation

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## Work Experience

### Software Engineering Intern

Brio Tech [View LoR](#) [Certificate](#)

Jul 2024 - Aug 2024

- Developed a Cloud Pricing Calculator using **Azure API**, Python, and Streamlit.
- Built a sales lead email generation application, automating 80% of lead generation and boosting sales productivity by 40% with LinkedIn API, **GPT-4**, and **Streamlit** (converting codebase to React for production ready environments).
- Integrated Google Cloud Platform services, mastering cloud security, IAM policies, and programmatic authentication.

### Full Stack Developer & Data Science Intern

PropReturns [View Certificate](#)

Jun 2023 – Aug 2023

- Built a **data pipeline** and infrastructure using **Python** and **regex**, which cleaned **web-scraped data** and reduced manual entry by **73%**.
- Created reusable UI component library, enhancing developer productivity by and improving system architecture.

### Founders Office & Software Developer

Styx(B2B SaaS) [View LoR](#) [View Prototype](#)

Mar 2023 – Jan 2024

- Designed and developed a security compliance dashboard **MVP**, increasing **valuation by 27%** and gaining stakeholders approval.
- Analyzed **business performance metrics** comprehensively to **identify growth opportunities** and drive strategic improvements.
- Pitched product to local and international investors & engaged with customers and industry peers, developing **strategies for distribution and market reach**. Notable: Contributed to securing **500,000 funding**, backed by MapMyIndia

## Club Experience

### Lead

Google Developer Groups [Letter](#), [Google](#)

Sep 2023 - Sep 2024

- Expanded chapter to **largest campus community** (350+ members), managing 26-person team across 5 departments, implementing 3-tier structure, and overseeing **903+** student participation's and certifications.
- Developed and directed **4 internal and community applications/tools** and 40+ long-term assets including **automation scripts** and internal web apps, increasing website traffic by 73% and documenting processes through SoP initiatives [SoP website](#)

### Head of Business & Marketing

BITS Motorsports [View Certificate](#)

Mar 2022 – Jun 2023

- Developed BMS Dashboard, **digitizing all processes** and moving away from traditional systems, sponsorship tracking for team members, using **Next.js** and **React**. [BMS Dashboard](#)
- **Student Council**, **EMC Technical Head** at BITS Pilani Dubai
- UN MCN Fellow, building open source applications for NGO's
- Startup Advisor for **E-cell IIT Bombay** & BITS Pilani Dubai

## Extra Curricular Activities

- Blogging, Designing, Social Work, Content Creation, Sports(Cricket for School Team)
- Creating Content on Social Platforms with over **100,000+ impressions**

## Skills

**Core Competencies** Software Development, AI, Machine Learning, Data Analysis, Databases, Cloud Computing, DevOps, Data Structures & Algo

**Business & Finance** Economics, Accounting, Industry Research, Financial Analysis, Data Analysis & Presentation

## Technical Skills

**Languages** Python, Java, C++, Typescript, JavaScript, SQL, HTML, CSS

**Frameworks** Matplotlib, Pandas, Numpy, Streamlit, Flask, Scikit-Learn, OpenCV, Flower(Federated Learning), ROSpy, Openai, Hugging Face

**Technologies** NextJs, React, Node.js, MySQL, Firebase, Vercel, Git, Google Cloud Platform, Azure, Figma, RESTful API, Docker, Linux, Prisma, Power BI, Tableau, Pinecone

## Relevant Projects

### UniDash – Platform for university resources

**Founded** and developed **UniDash**, a student-centric platform using **Next.js**, **Typescript**, **Tailwind** and **Firebase**, consolidating campus resources into a web application that achieved an average of **2100+ daily active users**.

### University Geolocation Attendance System

Engineered a geolocation-based university attendance system under the directive of the **Academic Dean at BITS Pilani Dubai**, utilizing Google Maps, **Geo Location**, Elevation API, React Native, **Kalman Filters** and **Web Sockets** to improve accuracy and reduce administrative workload.

### Federated Learning Model for IoT Attack Classification

Designed a **federated learning** model using the flower framework, **pytorch** to classify 33 types of cyber attacks on **edge devices** with data privacy

### Machine Learning Heart Disease Risk Predictor App

Developed an interactive heart disease prediction web app using Streamlit, Python, and **scikit-learn**, implementing a **KNN classifier** to assess disease risk from 13 key health parameters, delivering real-time personalized medical insights.

### Image Processing for Crack Detection using XFEM, Machine Learning & Deep Learning Techniques

Engineered **XFEM-based datasets** with diverse defect configurations and trained **VGG16 CNN models** using transfer learning and **supervised techniques** to construct crack paths, achieving high accuracy while **reducing computational costs** of simulations.

## Education

**BITS Pilani, Dubai Campus** | *B.E. Computer Science*

Coursework: DSA, Database Systems, Machine Learning, AI, Data Mining, Robotics, Object Oriented Programming, Finance