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 ☒   July 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.
- Integrated Google Cloud Platform services, mastering cloud security, IAM policies, and programmatic authentication.

Full Stack Developer & Data Science Intern

PropReturns View Certificate ☒   June 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 – June 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

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