

# Syed Muhammad Abdullah Masood

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## Education

### Information Technology University (ITU), Lahore

Sept 2022 – Present

- BS in Computer Science (Final Year Student)
- **Relevant Coursework:** Artificial Intelligence, Web Development, Database Systems, Operating Systems, Applications of Virtual Reality

## Certifications

### IBM Data Science Professional Certificate (12-course program)

🔗 Coursera Certificate   Feb 2025

- Covered the full data science lifecycle including Python, SQL, data analysis, data visualization, and machine learning
- Gained practical experience through hands-on labs using real datasets and industry-standard tools
- Completed a final applied data science capstone project focused on solving a real-world problem

## Technical Skills

**Languages:** Python, C, C++, C#, Rust, SQL, JavaScript

**Web & Backend:** Django, React, NextJs, Tauri, Flask, FastAPI, PostgreSQL, MongoDB, MySQL, Firebase

**ML/AI & CV:** PyTorch, Sentence-BERT, FaceAPI, MediaPipe, YOLOv8, OpenCV, Scikit-learn, ONNX

**Data Science:** NumPy, Pandas, Seaborn, Matplotlib, Plotly, Dash, SpaCy, Qdrant

**DevOps & Tools:** Docker, Git, Jupyter Notebook, Judge0

## Projects

### DeepScreen — AI Recruitment Platform (Final Year Project)

Sept 2025 – Present

- Built 4-stage hiring pipeline: semantic CV shortlisting, automated coding tests, AI voice interviews, live video
- Ran local embedding inference via ONNX Runtime and offline text-to-speech for AI interviews
- Built multi-layer desktop proctoring: face/gaze/pose tracking, object detection, process scans, VM detection
- Designed microservice architecture with hybrid relational + vector storage and isolated PDF generation service
- **Tech Stack:** Django, Next.js, PostgreSQL, Qdrant, MiniLM (ONNX), Llama 3, MediaPipe, Judge0, LiveKit, Tauri (Rust)

### SpaceX Falcon 9 Landing Prediction

🔗 GitHub | 📺 Demo

- Built ML pipeline to predict Falcon 9 landing success via API + web scraping; trained 4 classifiers with tuning
- Conducted EDA with SQL queries, geospatial mapping, and statistical visualizations to find launch patterns
- Developed interactive dashboard for real-time launch data exploration and model result visualization
- **Tech Stack:** Python, Pandas, Scikit-learn, Dash, Folium, BeautifulSoup, SQLite, Matplotlib, Seaborn

### ElectroStore - E-Commerce Platform(Next.js, MongoDB, Firebase)

🔗 Frontend Repo   🔗 Backend Repo

- Built scalable electronics marketplace with auth, role-based access, and admin dashboard for full store management
- Integrated payment processing with card + COD support, coupon discounts, and order lifecycle status tracking
- Designed secure backend: rate limiting, CSRF/injection middleware, and indexed database schemas for fast queries
- **Tech Stack:** Next.js, Node.js, Express, MongoDB, Firebase Auth, Stripe, Helmet, React Context API

### Airbnb Full-Stack Clone (MERN Stack, JWT authentication)

🔗 Backend Repo   🔗 Frontend Repo

- Built full-stack Airbnb clone with auth, profile management, listings CRUD, search, booking flow, and hosting
- Designed REST APIs with modular architecture, token-based auth, and responsive frontend with reusable components

### Multimodal AI Product Intelligence Platform (FastAPI, CLIP, Qdrant, Groq)

🔗 Backend Repo   🔗 Frontend Repo

- Built 5-agent pipeline: vision analysis, competitor research, persona simulation, pricing strategy, ad generation
- Ran concurrent LLM calls for 5-channel ad copy generation, reducing total latency from ~15s to under 3s
- Implemented vector similarity search for competitor analysis and hybrid edge/cloud deployment architecture

### TaskForge (Project Management SaaS)

🔗 Backend Repo   🔗 Frontend Repo

- Built multi-tenant Kanban platform featuring WebSocket sync, org isolation, RBAC, and Tauri desktop app.
- Implemented optimistic drag-drop reordering, cursor-paginated activity logs, and background PDF export jobs
- Designed secure auth with token rotation, brute-force lockout, presigned file uploads, and subscription billing
- **Tech Stack:** Django, DRF, Next.js, PostgreSQL, Redis, Celery, Channels, Stripe, S3, Tauri (Rust)