ABIDA BEGAM MOHAMMAD

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# PROFESSIONAL SUMMARY

Detail-oriented and versatile professional with 3 years of combined experience in Full Stack Web Development and Embedded Software Validation for the Automotive industry. Adept at leading full-cycle projects, from requirements gathering and system design to testing and deployment. Strong background in Django, React, PostgreSQL, Docker, and HIL-based verification tools. Passionate about developing scalable solutions and mentoring cross-functional teams.

# WORK EXPERIENCE

* American Technology Initiative — Team Lead / Full Stack Developer

April 2024 – Present

* Led the development of a Human Capital Management (HCM) portal digitizing HR workflows including recruitment and onboarding.
* Architected Django backend and React TypeScript frontend with modular design.
* Implemented secure JWT auth, role-based dashboards, and org chart visualizations.
* Dockerized multi-service setup and configured CI/CD workflows.
* Managed a remote team of 3 developers, code reviews, and sprint planning.
* CMC Limited (India) — System Validation Engineer

January 2022 – December 2023

* Validated automotive brake modules (ABS/TC/YSC) using HIL setups (dSPACE, AutomationDesk).
* Developed CAPL test scripts, ran CAN-based diagnostics, and performed regression testing.
* Interfaced with tools like CANalyzer, CANoe, and ControlDesk for simulation and analysis.
* Worked with ASPICE, ISO 26262 compliance, and Polyspace for static analysis.

# PROJECTS

* Human Capital Management (HCM) Portal — Full Stack Developer
* Built scalable HCM system with Django, React, PostgreSQL, and Docker.
* Implemented job application flow, onboarding, admin dashboard, and file upload logic.
* Course Management System — Full Stack Developer
* Designed Flask + SQLite backend for student/instructor workflows.
* Built frontend with HTML, Bootstrap, and Jinja2. Implemented session-based auth.

# EDUCATION

University of the People — B.S. Computer Science (2020–2024), GPA: 3.0

# TECHNICAL SKILLS

* Programming: Python, JavaScript, TypeScript, SQL, Embedded C, CAPL
* Frameworks: Django, Flask, FastAPI, React
* Testing: PyTest, Selenium, Robot Framework, JUnit
* Automotive Tools: dSPACE, ControlDesk, CANalyzer, CANape, AutomationDesk
* DevOps: Docker, Git, Jenkins, GitHub Actions
* Cloud/DB: AWS (EC2, S3), PostgreSQL, MySQL, Oracle
* OS: Linux (Ubuntu, RHEL), Windows

# CERTIFICATIONS

* Databases and SQL for Data Science – IBM / Coursera
* Python for Data Science and AI – IBM / Coursera
* Machine Learning with Python – IBM / Coursera
* dSPACE Real-Time Systems (ControlDesk, AutomationDesk)
* ISO 26262 Functional Safety Compliance Training