

Abdul Rahman M

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Professional Summary

Software Engineer with **2 years of experience delivering production web applications and backend functionality in enterprise environments**. Built and deployed **Python backend systems** using FastAPI, PostgreSQL, and MongoDB, with experience in REST APIs, authentication, automated testing, and CI/CD.

Experience

Tech Mahindra

Associate Software Engineer

Sep 2024 – Present

Chennai, India

- Develop and maintain **3 production web portals** using Drupal/PHP, contributing to custom modules, controllers, forms, hooks, Views, services, configuration, database queries, and system integrations.
- Implement and maintain **authentication, authorization, Drupal permissions, RBAC, MFA/TFA, OTP, OpenID Connect, OAuth, session management, API security, and input validation** across enterprise application workflows.
- Troubleshoot and resolve **15–25 work items per month**, including defects, enhancements, integrations, configuration issues, and production incidents across multiple environments.
- Work across **Local, Dev, QA, UAT, and Production** environments, participating in 1–2 production deployment cycles per month and resolving application issues using Linux, Apache, logs, and debugging tools.
- Collaborate through Agile development, Git branching, pull requests, code reviews, protected branches, merge/rebase workflows, and regression testing to deliver production changes safely.

Projects

FocusSprint | Python, FastAPI, PostgreSQL, Angular, Docker, GitHub Actions

- * Built and deployed a full-stack task management platform with a **FastAPI backend and Angular frontend**, backed by PostgreSQL and SQLAlchemy, with JWT-based authentication and role-based access control.
- * Developed **17+ RESTful API endpoints** implementing refresh-token rotation, secure password hashing, Pydantic validation, protected routes, and user-specific data access.
- * Implemented **27+ automated API tests** using Pytest and FastAPI TestClient with an isolated PostgreSQL test environment; integrated Docker-based testing into **GitHub Actions CI**.
- * Built multi-stage Docker configurations for development, testing, and production, with automated backend deployment to Render and PostgreSQL hosted on Neon.

RoleLens | Python, FastAPI, MongoDB, Pandas, APScheduler, Docker

- * Built a containerized job-market ETL and analytics platform that ingests technology job listings from the **Adzuna API** and exposes hiring insights through FastAPI REST endpoints.
- * Developed a scheduled ETL pipeline using **Pandas and APScheduler** to clean job metadata, normalize salaries, extract technology keywords, deduplicate records, and bulk upsert analytics-ready documents into MongoDB.
- * Implemented REST APIs for job listings, technology demand trends, salary insights, health monitoring, and manual ETL execution, with automated testing using **Pytest, FastAPI TestClient, and mongomock**.

Technical Skills

Languages: Python | SQL | PHP | JavaScript | TypeScript

Backend: FastAPI | REST APIs | JWT Authentication | API Security | Pydantic | SQLAlchemy

Databases & Data: PostgreSQL | MongoDB | MySQL | Pandas | ETL Pipelines | APScheduler

DevOps & Testing: Docker | Docker Compose | GitHub Actions | Pytest | Linux (Ubuntu) | Git | GitHub

Frontend & Cloud: Angular | HTML | CSS | AWS (Certified Cloud Practitioner) | Acquia Cloud

Education

B. S. Abdur Rahman Crescent Institute Of Science And Technology

B.Tech, Computer Science – First Class Distinction

May 2020 – May 2024

8.5 CGPA