

AMINAH AKHTAR

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SKILLS

- **Languages:** Javascript, Python, C++, C#, PHP, Jquery
- **Frontend:** ReactJS, Javascript, HTML, CSS, Bootstrap, WordPress
- **Backend:** PHP, Node.js, Express.js
- **Databases:** MySQL, MongoDB, PostgreSQL
- **Frameworks:** ReactJS, Flask, Fastapi, .NET, Laravel, Django
- Experience of Odoo, Machine Learning, Docker, AWS EC2, Github Actions and Microservice Architecture

WORK EXPERIENCE

Associate Software Engineer

Shispare

March/2025 - July/2025

- Developed and maintained backend services for a Laravel-based Warehouse Management System, ensuring smooth functionality and integration of core modules.
- Resolved performance, scalability, and functionality issues in a Django (Python)-based matrimonial mobile application during an audit phase, addressing client-reported bugs and improvement requests.
- Worked on various Odoo modules (Recruitment, Survey etc.) to support in-house business processes at Shispare.
- Actively participated in daily scrum meetings and collaborated with cross-functional teams to deliver sprint goals.
- Used Bitbucket for version control, managing source code and collaborating through pull requests and code reviews.

PHP Apprentice

Shispare

Dec/2024 - March/2025

- Contributed to the development, integration and maintenance of Laravel-based warehouse management system.
- Created and executed test cases in PHP/Laravel to ensure reliability and accuracy of system features
- Participated in daily SCRUM meetings and collaborated with cross-functional teams to plan and review sprint tasks
- Gained hands-on experience with version control (Git), BitBucket, debugging, and optimizing existing code for better performance

Software Engineer

Irlslabs.co - Austin, Texas

April/2024 - Dec/2024

- Showcasing versatility in full-stack development by leading a ReactJS and FastAPI project, creating microservice APIs with Docker, and generating SSL certificates. Work on the development of service using LangChain and implementing a CI/CD workflow with GitHub Actions for Docker-based deployments on AWS EC2, managed with PM2

Full Stack Developer Intern

Irlslabs.co - Austin, Texas

Sep/2023 - March/2024

- Demonstrated versatility in full-stack development by leading a ReactJS and Fastapi project.
- Created APIs in microservice architecture using Docker for efficient containerized deployment.
- Worked on generating SSL certificates for backend and frontend services.
- **DevOps:** Worked on the implementation of CI/CD workflow to deploy docker based services on AWS EC2 instance using Github Actions also with pm2.

Web Developer Intern

Neuro Computation Lab (NCL) - NED

Feb/2023 - Oct/2023

- Showcased versatility in full-stack development, leading projects that integrated ReactJS and Flask, notably creating a precise route visualisation module using Leaflet maps to boost user engagement.
- Engineered efficient Flask-based CRUD applications, optimised data workflows, and crafted comprehensive websites for AimGee and the "Charm" project at NCL, contributing to increased traffic and improved user interactions respectively.

Web Developer Intern Smart City Lab - National Center For Artificial Intelligence (NCAI) - NED Sep/2022 - Jan/2023

- Played a pivotal role in diverse projects, spearheading the development of a responsive website for the "WeedBot" research initiative with HTML, CSS, and JavaScript for an engaging user interface.
- Collaborated on a Python-based GIS project to compute annual NDVI from Landsat and Sentinel data, enhancing accuracy and visualizing multi-year results on a Leaflet map.

EDUCATION

Master Of Engineering	<u>NED University of Engineering & Technology</u>	Karachi, Pakistan	In-progress
	• Major In Software Engineering (CGPA: 3.87)		
Bachelor Of Engineering	<u>NED University of Engineering & Technology</u>	Karachi, Pakistan	2024
	• Major In Software Engineering (CGPA: 3.867, 10th Position)		
Intermediate	<u>BAMM PECHS Govt College For Women</u>	Karachi Board	2020
	• Pre-Engineering (Percentage: 90.27%)		
Matriculation	<u>Karachi Public School</u>	Karachi Board	2018
	• Science Group (Percentage: 92.35%)		

PROJECTS

- **Enhancing E-Bike Sustainability With Health Monitoring And Battery Swapping Infrastructure (Final Year Design Project) | React Native, Node.js, MongoDB Atlas, ReactJS, Flask, Github, Vercel, Digital Ocean**
 - Developed a mobile application enabling bikers to locate the nearest battery swap stations and request battery swaps and manage other operations.
 - Implemented functionality for swap station owners to view, accept, or reject swap requests, register batteries, and manage station operations.
 - Utilised WebSocket technology for real-time updates and Google Maps API for precise location services.
 - Created an intuitive admin dashboard to monitor battery health by analysing cell differences and detecting spikes, facilitating proactive battery management.
 - Designed the dashboard with comprehensive graphs for effective data visualisation.
 - Deployment was done on Vercel and DigitalOcean, leveraging Vercel for continuous integration and deployment (CI/CD).
 - Utilised GitHub for version control and collaboration, ensuring efficient project management and code integrity.
- **Disease Prediction Using NLP | Python, ML**
 - Utilised NLP and machine learning algorithms to predict disease on the basis of user conditions.
- **Job Board | MERN Stack, ReactJS, Node.js, MongoDB, Express.js**
 - Built an advanced job portal platform in MERN, providing seamless job discovery, application, and posting for both seekers and employers.
- **Kids Learning Website | ReactJS**
 - Built Kids Learning site with ReactJS, enhancing interactive education.
- **E-commerce Website | HTML, CSS, JavaScript, PHP, SQL, MySQL**
 - Crafted dynamic E-commerce site for seamless shopping, using varied tech stacks.
- **Supermarket Management System (Desktop Application) | C#, MS ACCESS**
 - Created Supermarket Management System using C# and MS ACCESS, boosting inventory efficiency.
- **Flight Booking System (Desktop Application) | Python, MS ACCESS**
 - Designed Flight Booking app with Python and MS ACCESS, simplifying reservations.

CERTIFICATIONS

- HTML5 | CSS3 | Advanced Styling with Responsive Design | JavaScript (Coursera)