





AMINAH AKHTAR

 [aminahakhtar](#) |  +92-3341893595 |  aminah30akhtar3a@gmail.com |  [AminahAkhtar](#)

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 | <u>Shispare</u> | March/2025 - July/2025 |
| <ul style="list-style-type: none">• 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 | <u>Shispare</u> | Dec/2024 - March/2025 |
| <ul style="list-style-type: none">• 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 | <u>Irislabs.co - Austin, Texas</u> | April/2024 - Dec/2024 |
| <ul style="list-style-type: none">• 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 | <u>Irislabs.co - Austin, Texas</u> | Sep/2023 - March/2024 |
| <ul style="list-style-type: none">• 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 | <u>Neuro Computation Lab (NCL) - NED</u> | Feb/2023 - Oct/2023 |
| <ul style="list-style-type: none">• 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 (NCAD) - 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 <i>Software Engineering</i> (CGPA: 3.87)			
Bachelor Of Engineering	<u>NED University of Engineering & Technology</u>	Karachi, Pakistan	2024
• Major In <i>Software Engineering</i> (CGPA: 3.867, 10th Position)			
Intermediate	<u>BAMM PECHS Govt College For Women</u>	Karachi Board	2020
• <i>Pre-Engineering</i> (Percentage: 90.27%)			
Matriculation	<u>Karachi Public School</u>	Karachi Board	2018
• <i>Science Group</i> (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)