

AMINAH AKHTAR

 aminah30akhtar3a@gmail.com

EDUCATION

Master Of Engineering	<u>NED University of Engineering & Technology</u>	Karachi, Pakistan	2025
<ul style="list-style-type: none">Major In <i>Software Engineering</i> (CGPA: 3.91)			
Bachelor Of Engineering	<u>NED University of Engineering & Technology</u>	Karachi, Pakistan	2024
<ul style="list-style-type: none">Major In <i>Software Engineering</i> (CGPA: 3.867, 10th Position)			
Intermediate	<u>BAMM PECHS Govt College For Women</u>	Karachi Board	2020
<ul style="list-style-type: none"><i>Pre-Engineering</i> (Percentage: 90.27%)			
Matriculation	<u>Karachi Public School</u>	Karachi Board	2018
<ul style="list-style-type: none"><i>Science Group</i> (Percentage: 92.35%)			

WORK EXPERIENCE

Lecturer	<u>NED University of Engineering & Technology</u>	March/2026-Present
<ul style="list-style-type: none">Serving as a lecturer in the Department of Software Engineering at NED University of Engineering and Technology		
Associate Software Engineer	<u>Shispare</u>	March/2025 - July/2025
<ul style="list-style-type: none">Developed and maintained backend systems across Laravel, Django, and Odoo platforms—resolving performance and functionality issues, supporting business processes, and collaborating in Agile teams using Bitbucket to deliver high-quality features.		
PHP Apprentice	<u>Shispare</u>	Dec/2024 - March/2025
<ul style="list-style-type: none">Contributed to the development and maintenance of a Laravel-based warehouse management system by implementing features, creating test cases, optimizing performance, and collaborating in Agile SCRUM teams using Git and Bitbucket.		
Software Engineer	<u>Irislabs.co - Austin, Texas</u>	Sep/2023 - Dec/2024
<ul style="list-style-type: none">Led a full-stack ReactJS and FastAPI project by building microservices-based APIs with Docker, integrating LangChain services, implementing SSL, and establishing a CI/CD pipeline with GitHub Actions to deploy and manage scalable applications on AWS EC2 using PM2.		
Web Developer Intern	<u>Neuro Computation Lab (NCL) - NED</u>	Feb/2023 - Oct/2023
<ul style="list-style-type: none">Led full-stack projects using ReactJS and Flask, developing Leaflet-based route visualizations and efficient CRUD applications to enhance user engagement and optimize data workflows across multiple production websites.		
Web Developer Intern	<u>Smart City Lab - National Center For Artificial Intelligence (NCAI) - NED</u>	Sep/2022 - Jan/2023
<ul style="list-style-type: none">Developed a responsive web interface for the <i>WeedBot</i> research project and contributed to a Python-based GIS system for computing and visualizing multi-year NDVI data from Landsat and Sentinel sources.		

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, ASP.NET, Laravel, Django
- Experience of Odo, Machine Learning, Docker, AWS EC2, Github Actions and Microservice Architecture

CERTIFICATIONS

- HTML5 | CSS3 | Advanced Styling with Responsive Design | JavaScript (Coursera)
- .NET | ASP.NET (Microsoft)

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 and deployed a full-stack mobile application for battery swapping, enabling real-time user and station operations with WebSockets, location services via Google Maps API, an analytics-driven admin dashboard, and CI/CD-powered deployment using Vercel, DigitalOcean, and GitHub.
- **Job Portal & Recruitment Management System | ASP.NET Core Web API, React, Microservices, MySQL**
 - Developed a full-stack job portal using React and ASP.NET Core Web API, enabling job seekers to search and apply for jobs while employers manage postings, applications, and candidate shortlisting through secure REST APIs.
- **Task & Workflow Management System | ASP.NET Core Web API, React, Microservices, MySQL**
 - Built a task management system using ASP.NET Core Web API and React, allowing teams to create, assign, track, and update tasks with role-based authentication and scalable microservices-oriented design.
- **Smart E-Commerce Order Management System | ASP.NET Core Web API, React, Microservices, MySQL**
 - Built a scalable microservices-based e-commerce system using ASP.NET Core Web API with a React frontend, featuring JWT authentication, RESTful APIs, and an MVC-based admin dashboard for centralized management
- **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.