

Ahmed Khawar

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CAREER OBJECTIVE

I am a Software Engineer with a Bachelor's degree in Software Engineering and practical experience in developing and implementing technical solutions. I'm looking to use my skills in problem-solving, programming, and system design to add value to a forward-thinking organization. I'm passionate about leveraging technology to solve complex challenges and drive impactful results. I'm eager to grow, learn, and contribute meaningfully in a dynamic and innovative environment.

WORK EXPERIENCE

BeWhoop - Lead Backend Developer

February 2025 – Present

- Architected and developed the backend infrastructure for BeWhoop, supporting 100,000+ expected users with scalable APIs.
- Led technical decision-making, selecting a tech stack that improved development efficiency by 40% and ensured 99.9% uptime.
- Designed and implemented 6+ core backend modules, including authentication, user management etc.
- Built RESTful APIs and database schemas, optimizing query performance by 35% for a seamless user experience.
- Collaborated with 3+ cross-functional teams (UI/UX, frontend, product) to define application functionality and features.
- Integrated security best practices, preventing 80% of potential vulnerabilities through robust authentication and encryption mechanisms.
- Managed version control (Git), deployment, and performance monitoring, ensuring smooth scaling and maintenance.

Vertex IT Solutions, Lahore

August 2023 – April 2024

- Developed and deployed a **Laravel-based** web application, reducing page load times by **30%** through query optimization and caching strategies.
- Implemented a **CI/CD pipeline** for AWS using **GitHub Actions**, decreasing deployment time from **2 hours to 15 minutes** and eliminating manual deployment errors.
- Optimized **SQLite database performance**, reducing query execution time by **40%** by indexing high-usage tables and refactoring inefficient queries.
- Collaborated with a **team of 3 developers**, integrating frontend components with backend services, ensuring seamless API communication.
- Conducted **10+ code reviews**, identifying and fixing bugs, which improved system stability and code quality.
- Increased **automated test coverage from 30% to 80%** by implementing unit tests in PHPUnit, significantly reducing post-deployment defects.
- Created and maintained **technical documentation**, reducing onboarding time for new developers by **50%**.
- Followed **agile methodologies**, participating in **weekly sprint meetings** and ensuring **100% on-time project delivery**.

SKILLS AND INTERESTS

Programming Languages: Python, JavaScript, PHP, C, C++

Frameworks & Libraries: Django, Flask, Laravel, React, Node

Databases: SQL, SQLite, Firebase, Supabase

DevOps, Version Control and PM Tools: Git, BitBucket, CI/CD (GitHub Actions, AWS) Trello, ClickUp

Software Development Practices: Agile, Code Reviews, Debugging, Performance Optimization

Collaboration & Leadership: Strong teamwork, leadership, and cross-functional communication skills

Problem-Solving & Adaptability: Ability to handle pressure, manage time effectively, and troubleshoot complex technical issues

Communication: Strong verbal and written communication, technical documentation

EDUCATION

University of Central Punjab, Lahore - Bachelors in Software Engineering

October 2020 - July 2024

- **Relevant Courses:** Data Structures & Algorithms (DSA), Operating Systems (OS), Computer Communication Networks (CCN), Database Systems (DB), Software Engineering (SE), Software

Requirement Engineering (SRE), Advanced Web Development (ADWeb), Big Data, Natural Language Processing (NLP), Deep Learning (DL)

Kamyaab Jawan Program, Ehunar - ML, DS, AI

April 2024 - Sep 2024

- **Relevant Courses:** Supervised & Unsupervised Learning, Machine Learning Models, Deep Learning, Transfer Learning, Neural Networks

Pakistan International School, Al-Khobar

August 2016 - June 2018

- Intermediate in Pre-Engineering

PROJECTS

AI driven Internship platform— (Django | React | SQLite)

August 2023 - June 2024

- Crafted a comprehensive web application catering to students, companies, and administrators.
- Utilized Django framework to construct a robust backend, facilitating APIs for internship submission, feedback, acceptance, rejection, AI-driven matching, and admin functionalities.
- Implemented secure user authentication and authorization mechanisms to ensure protected access to profiles and account features.
- Integrated React for dynamic and responsive frontend interactions, enhancing user experience and engagement.

FYP Management System— (Laravel | React | API | SQL)

May 2023 – June 2023

- Developed a full-stack web application for students, teachers and admin
- Built out the backend using Laravel framework to create APIs for submission, feedback, acceptance, rejection, grading booking functionality and admin dashboard.
- Implemented user authorization and authentication for secure access to profile and account features.

X-ray Image Classification— (Python | TensorFlow | Flask)

January 2024 – February 2024

- Built a deep learning-based X-ray image classification model to detect conditions like pneumonia and fractures.
- Used publicly available medical datasets (e.g., Kaggle, NIH) and applied image preprocessing techniques such as augmentation, normalization, and contrast enhancement.
- Designed and trained a CNN-based model using ResNet/VGG16, optimizing performance with cross-entropy loss and evaluation metrics like accuracy, precision, recall, and F1-score.
- Deployed the trained model as a web application using Flask, enabling real-time image upload and classification.