Muhammad Kashif

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EDUCATION

National University of Computer and Emerging Sciences **Sept 2021 - July 2025**
Bachelor of Science – Computer Science *Islamabad*

Courses: Programming Fundamentals, Object Oriented Programming, Data Structures, Artificial Intelligence, Deep Learning, Software Engineering, DevOps, Web Programming, Cloud Computing, Information Security, Database Systems, Design and Analysis of Algorithms, Computer Networks, Operating Systems, Parallel and Distributed Computing, Software Design and Architecture, Computer Organization and Assembly Language

SKILLS SUMMARY

Languages: Python, JavaScript, Java, SQL, C#, Assembly (x86), C, C++,

Cloud & Platforms: AWS, Microsoft Azure, Google Cloud Platform (GCP), Linux, Windows

Production-Level Frameworks/Tools: Flask, Django, React, Node.js, Express, React Native, Docker

General Frameworks & Libraries: Bootstrap, Tailwind CSS, NumPy, SciPy, Pandas, Matplotlib

Databases: PostgreSQL, MongoDB, MS SQL Server

Development Tools: Git, gdb, Google Test, Jupyter, VS Code, Eclipse

Soft Skills: Communication, Time Management, Adaptability, Problem Solving, Team Collaboration, Creativity

WORK EXPERIENCE

Mobile Wallet Application Developer **Aug 2024 - Present**
Circuit Stream *Islamabad.*

- Developed 12+ screens for the digital wallet mobile app, ensuring seamless functionality and design consistency.
- Built 20+ new features for the admin dashboard from scratch, enabling robust project management and analytics.
- Integrated payment processing systems and financial APIs for secure and efficient transactions.
- Utilized React Native, React, Node, and Express for cross-platform and web development.
- Implemented security protocols to safeguard user data and prevent fraudulent activities.
- Collaborated with UX/UI designers to deliver intuitive and user-friendly interfaces.

Generative AI & Full Stack Developer **May 2024 – Aug 2024**
Knowledge Discovery and Data Science Lab *Islamabad.*

- Collaborated with cross-functional teams to gather requirements and translate them into functional web features
- Integrated generative AI model, utilizing both local models (llama 3.1) and APIs (Gemini Flash 1.5)
- Designed user interfaces for PlotPal and Mulazmat, improving usability scores by 20%
- Developed and maintained frontend and backend using Flask, reducing API response time by 35%
- Conducted testing and debugging to ensure functional web applications, reducing critical bugs by 90%

CERTIFICATIONS

[Front End Development & Responsive Web Design](#) **June 2023 – July 2023**
freeCodeCamp *Remote*

- Completed an intensive 300-hour front-end web development course on freeCodeCamp, gaining proficiency in HTML and CSS. Learned to create responsive and visually appealing web interfaces through hands-on projects and practical exercises

[Google's UX Design Course](#) **June 2023 – Aug 2023**
Coursera *Remote*

- Successfully completed a comprehensive 7-module UX design course offered by Google on Coursera. Gained in-depth knowledge of user-centered design principles and methodologies, including wireframing, prototyping, and conducting user research and applied learned skills to real-world projects

- [Introduction to Cloud Computing](#)
- [Search Engine Optimization](#)
- [Build a website using WordPress](#)
- [Develop a company website using Wix](#)

PROJECTS

- **[PlotPal – A visualization Chatbot (Flask, SQLAlchemy, HTML, CSS, Bootstrap, Gemini API):](#)**
  - Designed the UI/UX and developed 8 new features for a visualization chatbot web application
  - Implemented frontend using HTML, CSS, and Bootstrap, ensuring a responsive and user-friendly interface
  - Collaborated with backend developers to integrate front-end components with Flask for seamless functionality, reducing page load time by more than 15%
  - Enhanced user experience by implementing a robust chat interface that can generate visualizations such as bar graphs, plots, and display data frames using the Gemini API key <**[Live Link](#)**>

- **Ritter Dahait – Investment App (React Native, Node.js, Express, PostgreSQL, AWS, Stripe):**
  [Internal Use Only: Private Repo]
  - Designed and developed 12+ interactive screens for a cross-platform investment app with seamless UI/UX.
  - Shared backend architecture enabled real-time syncing of app activity with the admin dashboard.
  - Integrated secure payment systems and financial APIs for efficient and reliable transactions.
  - Collaborated with UX/UI designers to deliver visually appealing interfaces, boosting user engagement.
  - Implemented advanced security protocols, ensuring data protection and compliance with industry standards.

- **Admin Dashboard – Mobile Wallet Application (React, Node.js, Express, PostgreSQL, AWS):**
  [Internal Use Only: Private Repo]
  - Built 20+ features from scratch, including project/investment management and analytics tools.
  - Shared backend allowed managing app activity and displaying dashboard-added investments in the app.
  - Developed RESTful APIs for seamless communication and real-time data updates between app and dashboard.
  - Designed scalable PostgreSQL schemas to support dynamic features and ensure efficient data handling.
  - Enhanced administrative efficiency with an intuitive, user-friendly interface and robust testing processes.

- **[Timetable Scheduler for FAST University using Genetic Algorithm (Python, Jupyter Notebook):](#)**
  - Developed a sophisticated timetable scheduler for FAST University using a genetic algorithm in Python
  - Handled complexities of scheduling for multiple departments, sections, subjects, faculty members, classrooms, and labs, leading to a 95% reduce in scheduling conflicts
  - Generated weekly timetables adhering to various hard and soft constraints, covering over 100 classes
  - Employed binary encoding for chromosomes and a fitness function that penalized scheduling conflicts and clashes to ensure efficient and conflict-free schedules

- **[CampusForge – A Society Management System (SQL and C#):](#)**
  - Designed and developed a comprehensive Society Management System using C# in Visual Studio and Microsoft SQL Server to manage the database, supporting over 120 different societies
  - Featured distinct modules for various user roles, including Admin, Head, Member, and Society Mentor
  - Collaborated in a team of three, adhering to Software Engineering principles throughout development and documentation, and streamlining society operations by over 30%
  - Executed the implementation of basic CRUD operations for the society's database system, resulting in enhanced data retrieval speed and improved user satisfaction across 200+ active members