UMAIR AHMAD

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SUMMARY

Motivated BSCS student at Namal University Mianwali with practical experience in software engineering, machine learning, and database systems. Skilled in C++, Python, and SQL, with a strong foundation in OOP, Data Structures, and core Software Engineering concepts such as SDLC, Agile methodologies, UML modeling, testing, and system design. Developed real-world projects including management systems, games, and AI-based applications. A collaborative team player, mentor, and quick learner, actively seeking internship opportunities to apply and enhance technical and engineering skills in professional environments.

EDUCATION

Namal University Mianwali   **2022 – 2026 (Expected Completion)**

Bachelor's Degree in Computer Science (BSCS)

Govt. Associate College Darya Khan

Intermediate in Computer science (ICS)   **Sep 2020 –June 2022**

ACADEMIC PROJECT EXPERIENCE

MrDresser AI Powered Software SE Project (Group Project)   **Feb 2025 - Jun 2025**

- Built a web app that suggests daily outfits using AI based on user preferences, weather data, and past clothing choices.
- Designed full SDLC documentation including SRS, DFDs, UML diagrams, and test plans.
- Emphasized sustainability by tracking clothing usage to reduce over-wearing or underuse

Catopia - Full-Stack E-commerce Application (Group Project)   **Feb 2025 - Jun 2025**

- Developed a full-stack e-commerce and cat adoption platform using React, Node.js, Express, and MongoDB, featuring product listings, shopping cart, order tracking, and adoption applications.
- Implemented JWT-based authentication, role-based access control, and an admin dashboard for managing users, products, orders, and content.

Forest Fire Detection (Group Project)   **Feb 2025 - Jun 2025**

- Developed a machine learning model to predict the likelihood of forest fires using real-world environmental data, applying techniques such as logistic regression and decision trees.
- Performed thorough data preprocessing, exploratory data analysis (EDA), and model evaluation with performance visualizations, leveraging Python libraries like Pandas, NumPy, Scikit-learn, Seaborn, and Matplotlib.

University Blood Bank Database (Group Project)   **March 2024 - Jun 2024**

- Designed and implemented a comprehensive database system for the university blood bank.
- Utilized MySQL for efficient data management, ensuring accurate tracking of blood donations, storage, and distribution.
- Implemented a user-friendly interface using Python for backend logic and PythonTk-inter library for frontend development.

Babu Shona – Toy Programming Language Interpreter(Group Project) **Sep 2024 - Jan 2025**

- Developed a web-based compiler using Tk-inter Python library.
- Created intuitive syntax using playful native phrases like dekho babu for print and bolo Shona for input and many more .
- Promoted interactive learning with a live code editor and instant output console.

ADDITIONAL INFORMATION

- **Programming Languages:** Python, C++, SQL, HTML, CSS,
- **Core Competencies:** Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), Design and Analysis of Algorithms (DAA), Database Management Systems (DBMS)
- **Tools:** MySQL, GitHub, Tkinter (Python GUI), MS Office, VS Code, MySQL Workbench, Collab, Draw.io
- **Soft Skills:** Communication, Leadership, Team Collaboration, Presentation Skills
- **Language:** English, Urdu, Punjabi

CERTIFICATIONS

- **Teaching Assistant Certificate:** Object-Oriented Programming Course, Namal University
- **Teaching Assistant Certificate:** Programming Fundamentals Course, Namal University
- **Internship Certificate:** Web Development(NextGen Learners), C++ Programming(Code Alpha, Cognifyz Technologies)
- **Campus Ambassador:** Digital Empowerment Network(DEN), Lets Upgrade, Career Connect Pakistan
- **Digi Skills Certificate:** Search Engine Optimization (SEO)
- **Lets Upgrade**: Mongo DB Boot Camp
- **Finance Assistant Certificate:** SDS Society, NSSI (Namal Society for Social Impact)

WORK STUDY EXPERIENCE

Object-Oriented Programming Teaching Assistant – Namal University (Spring 2024 & Spring 2025)
- Provided one-on-one support to help students grasp foundational and object-oriented principles such as classes, inheritance, and encapsulation
- Created assignments and explained core logic of object-oriented Programming.

Programming Fundamentals Teaching Assistant – Namal University   (Fall 2023 & Fall 2024)
- Conducted lab sessions and guided students in debugging code and understanding core programming concepts.
- Designed and evaluated programming assignments, explaining the underlying logic and best practices.

REFERENCES

Dr. Malik Muhammad Ali Shahid (PhD)
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Namal University, Mianwali, Pakistan
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