

# UMAIR AHMAD

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## SUMMARY

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Computer Science graduate (expected 2026) from Namal University Mianwali with hands-on experience in software development, machine learning, and database systems. Built multiple academic and real-world projects including an AI-Powered HR Recruitment System that automates resume screening, candidate matching, and interview evaluation. Strong background in data structures, algorithms, software engineering, Cyber security, cloud computing, and distributed systems. Proficient in Python, C++, SQL, and full-stack web development technologies. Served as a Teaching Assistant for Programming Fundamentals and Object-Oriented Programming, supporting students in core programming concepts. Recognized as a top performer in the Google Arcade Program 2025 by Google. Interested in building practical software solutions and growing as a software engineer.

## EDUCATION

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**Namal University Mianwali** 2022 – 2026 (Expected)  
Bachelor's Degree in Computer Science (BSCS)

**Govt. Associate College Darya Khan** Sep 2020 – June 2022  
Intermediate in Computer science (ICS)

## PROJECTS

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**AI Powered HR Recruitment System — Final Year Project** [GitHub](#)

- Designed and developing a web-based recruitment system that automates resume screening, candidate matching, interview evaluation, and hiring workflow management.
- Built resume parsing and candidate profiling features to extract and organize information from unstructured CVs for structured analysis.
- Implemented candidate-job matching and evaluation modules to support consistent and evidence-based short-listing decisions.
- Developed the system using structured software engineering practices including requirements analysis, system modeling, and technical documentation.
- Collaborated in a team environment using iterative development and focused on usability to improve recruiter efficiency and candidate experience.

**Catopia Full-Stack E-commerce Application** [GitHub](#)

- Developed a full-stack web application supporting product browsing, adoption listings, and secure user account management.
- Integrated frontend, backend, and database components to enable reliable data handling and transaction workflows.
- Designed clear user interfaces and organized system structure to improve usability and maintainability.
- Practiced version control and modular development while building and testing application features.

**Forest Fire Detection using Machine Learning** [GitHub](#)

- Built a machine learning model to analyze environmental data and predict forest fire occurrence patterns.
- Performed data preprocessing, feature selection, and model evaluation to improve prediction reliability.
- Interpreted results using data visualization to communicate insights clearly.
- Demonstrated analytical thinking and structured experimentation throughout the project.

## Babu Shona Toy Programming Language Interpreter

[GitHub](#)

- Designed and implemented a custom programming language interpreter using parsing and execution logic.
- Applied compiler design concepts including lexical analysis, syntax parsing, and structured execution flow.
- Solved complex logic and system design challenges through step-by-step implementation.
- Documented language structure and functionality to support clarity and future extension.

## Parallel Matrix Multiplication

[GitHub](#)

- Implemented matrix multiplication using parallel processing techniques to improve computational efficiency.
- Compared sequential and parallel execution performance to evaluate optimization gains.

## ADDITIONAL INFORMATION

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<b>Programming Languages:</b>	Python, C++, SQL, JavaScript, HTML, CSS, React
<b>Core Competencies:</b>	DSA, OOP, DAA, DBMS, SE, ML, AI, NLP
<b>Technologies/ Domains:</b>	Artificial Intelligence Applications, Full-Stack Web Development, Parallel and Distributed Computing, Cloud Computing , Cybersecurity Fundamentals
<b>Tools/ Platforms</b>	MySQL, GitHub, VS Code, Google Colab, MySQL Workbench, Tkinter (Python GUI), Draw.io, MS Office
<b>Soft Skills:</b>	Communication, Leadership, Team Collaboration, Problem Solving, Technical Presentation
<b>Languages:</b>	English, Urdu, Punjabi

## WORK / STUDY EXPERIENCE

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### Teaching Assistant — Programming Fundamentals (Spring 2024 – Spring 2025)

- Assisted students in understanding core programming concepts, debugging code, and in helping lab assignments.
- Supported grading and provided feedback to improve problem-solving and coding practices.

### Teaching Assistant — Object-Oriented Programming (Fall 2023 & Fall 2024)

- Guided students in applying OOP concepts such as classes, inheritance, and program design.
- Assisted instructors with lab sessions, evaluations, and academic support activities.

## CERTIFICATIONS / ACHIEVEMENTS

[DRIVE LINKS](#)

<b>Google Arcade C2:</b>	Topper in Google Arcade Program C2 2025
<b>Teacher Assistant:</b>	Object-Oriented Programming Course, Programming Fundamentals Course Namal University
<b>Remote Internship :</b>	Web Development(NextGen Learners), C++ Programming(Code Alpha, Cognifyz Technologies)
<b>Campus Ambassador:</b>	Young Hearts United, Digital Empowerment Network(DEN), Lets Upgrade, Career Connect Pakistan
<b>Societies Work :</b>	NDC(Namal Dramatic Club), SDS Society, NSSI (Namal Society for Social Impact)
<b>Others:</b>	Mongo DB Boot Camp, Search Engine Optimization (SEO)

## REFERENCES

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<b>Dr. Malik Muhammad Ali Shahid (PhD)</b> Head of Department Associate Professor , Computer Science Email: <a href="mailto:alishahid@namal.edu.pk">alishahid@namal.edu.pk</a>	Namal University, Mianwali, Pakistan
<b>Dr. Mudassar Raza (PhD)</b> Professor, Department of Computer Science Senior Member, IEEE — Chairman Publications, IEEE Email: <a href="mailto:mudassar.raza@namal.edu.pk">mudassar.raza@namal.edu.pk</a>	Namal University, Mianwali, Pakistan