

Muhammad Atif Ali Khan

✉ Email Address in LinkedIn 📄 GitHub </> LeetCode >_ HackerRank

EDUCATION

University of Peshawar

BS in Computer Science

Sept 2020 – Nov 2024

- GPA: 3.6/4.0
- **Coursework:** Software Engineering, Data Structures and Algorithms, Computer Architecture, Advanced Databases, Linear Algebra, and Web Technologies.

EXPERIENCE

Service Engineering Intern

Automotive Artificial Intelligence

Berlin, DE

Feb 2025 – April 2025

- **Data Automation:** Automated the loading of large-scale datasets into a labeling platform using Python and Pandas for data analysis and data cleaning, streamlining data preparation for autonomous vehicle systems.

Software Engineer Intern

Crescent Cyber

Palo Alto, CA

Feb 2024 – May 2024

- **Research and Development:** Contributed to the R&D process under a Ph.D. software engineer's supervision, and assisted the Deployment Team.
- **Frontend Development:** Built a responsive and user-friendly interface using Bootstrap as part of the Development Team.

PROJECTS

C++ Projects

- **Key Logger – Educational Windows Application:** A Windows-based keylogger in C++ to explore OS-level input capture, custom encryption, and secure data transmission via email. Designed for ethical research, tested in isolated environments, and built to study antivirus evasion techniques and Windows internals. [KeyLogger](#) 🔗

Web Projects

- **Yelp-Camp:** A full-stack web application using the MERN stack technologies. Implementing the full CRUD functionality in Mongo and with full authentication services. [Yelp-Camp](#) 🔗
- **Ping Pong Score Keeper:** A fully functional score-keeping game using *JavaScript*, *HTML*, and *CSS*, with real-time scoring updates. [Ping Pong Score Keeper](#) 🔗

SKILLS

Languages: C++, Python, JavaScript.

Tools: Node.js, Express.js, Databases (SQL and NoSQL), Git and GitHub

LEADERSHIP/EXTRACURRICULAR

- **Problem Solving Enthusiast:** Actively do problem solving on LeetCode, Codeforces, CodeChef, HackerEarth, and HackerRank. Passionate about algorithms, and data structures.
- **Aria2 Contributions:** Enhanced connection logic and performed memory analysis (Valgrind (memcheck) and ASan) to explore leak risks in the C++ code base.
- **Aspire Leaders Program:** Graduated from the ALP in April of 2024, sponsored by Harvard University.
- **Community Service Program (CSP) Volunteer:** CSP is a nationwide initiative encouraging students to engage in community service activities during their degree, managed by HEC.