

Zahid Jabbar Khan

Mobile: +91-9828078694 | Email: zahidjabbarkhan07@gmail.com | LinkedIn: [zahid-khan](#) | Github: [Zahidmohd](#) | Portfolio: [Zahid.](#)

EDUCATION

Birla Institute of Technology, Mesra

BTECH in Electronic and Communication - CGPA: 6.66

Ranchi, Jharkhand

Nov. 2021 – June 2025

Warren Academy School

12th PCM - Percentage: 77.0%

Jaipur, Rajasthan

April. 2020 – May 2021

TECHNICAL SKILLS

Languages and Technologies: C++, C, Python, OOPs, CSS, HTML, JavaScript, SQL, Agile, MySQL

Frameworks and Libraries: Node.js, React.js, Express.js, JWT, Passport.js, NumPy, Matplotlib

Tools and Platforms: Git, GitHub, Visual Studio, IntelliJ IDEA, NI LabView

EXPERIENCE

R&D Intern

June 2024 – August 2024

Genus Power Infrastructure Ltd.

Jaipur, Rajasthan

- Analyzed and optimized the performance of the **bsdiff4** library for creating and applying binary patches using **Python**.
- Implemented **parallel processing** in Python for patch creation and application to improve efficiency.
- Conducted detailed performance evaluations in Python, including patch size, creation time, and application time.
- Verified file integrity after patch application to ensure data accuracy using Python.
- Project Link: [Bsdiff4](#)

Front End Web Development

March 2024 – April 2024

SolarLagao Ltd.

Jaipur, Rajasthan

- Developed and maintained front-end components for the company's web platform using **HTML**, **CSS**, and **JavaScript**.
- Assisted in optimizing the website's user interface and improving user experience.
- Collaborated with the back-end team to integrate **APIs** and ensure smooth data flow.
- Participated in code reviews and contributed to enhancing the codebase for better maintainability.
- Designed responsive web pages that improved accessibility and user engagement across different devices.

PROJECTS

File-Zipper | C++, Python, Shell, DSA

- Implemented a lossless [file compression tool](#) in C++ using **Huffman coding**, achieving up to 30% file size reduction.
- Developed a **CLI supporting files** up to 50MB, with 100% accuracy in compression-decompression cycles.
- Utilized priority queues and binary trees, resulting in **O(n log n)** time complexity for compression.
- Integrated with my [Bsdiff4](#) algo for advanced file comparison, enabling 25% smaller patch files compared to standard diff tools.

E-Commerce Platform | NodeJs, ReactJs, ExpressJs, JWT, MongoDB, Tailwind Css

- Engineered **MERN** e-commerce platform with **JWT**, reducing vulnerabilities by 70%..
- Optimized **REST APIs**, increasing system throughput by 55% and cutting response times by 60%
- Implemented **Redux** and optimized **MongoDB**, enabling 3x more concurrent users.
- Project Link: <https://github.com/Zahidmohd/E-Commerce-Website>

ACHIEVEMENTS

- Virtual Experience Programs** (Forage, 2024): Completed **JPMorgan Chase & Co. (July)** and **AWS APAC (June)**, developed a class and test suite for a [rewards system](#), designed a scalable **Elastic Beanstalk** architecture, and communicated architecture and cost details effectively..
- Cirquik College Hackathon**: Won **1st place** out of 10+ teams by leading a team of 4 in developing an innovative solution.

Volunteering Experience

- Management Head** | Sports-Committee (April'21 - present) - Organized and managed 5+ events, leading a team of 10+ members.
- Campus Ambassador** | Kshitij IIT Kharagpur(Dec'22 - Jan'23) - Successfully coordinated and promoted 3+ events.
- Coordinator** | Culture-Committee (April'21 - Aug'23) - Successfully coordinated **Vibration**(cultural fest) which consist of 10+ events, leading a team of 50+ members.
- Organized a **Blood Donations Camp** at our college with the assistance from the **Need Foundation**.