Zahid Jabbar Khan

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EDUCATION

Birla Institute of Technology, Mesra

Ranchi, Jharkhand BTECH in Electronic and Communication - CGPA: 6.56 Jan. 2021 - June 2025

Warren Academy School Jaipur, Rajasthan

12th PCM - Percentage: 77.0% April. 2020 - May 2021

TECHNICAL SKILLS

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

Frameworks and Libraries: Node.js, React.js, Express.js, Django, NumPy, MatPlotlib

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

EXPERIENCE

R&D Intern June 2024 - Present

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.
- Measured and reduced memory usage during the patch creation process using Python.
- · 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%
- . Streamlined shopping with fast cart ops and Braintree, boosting conversions by 40%.
- · 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

- · Senior-Coordinator | 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.