

Hamza Shabbir

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ABOUT ME

I am a fresh graduate in Bs Computer Science from the University of Central Punjab with a foundation in full-stack development using the MERN stack, Python, and mobile application development. Through university projects and my final year project, I built programming language conversion platform for Node to Python and Python to Node. Beside this I built dynamic web and mobile applications using React.js, Node.js, SQL, and Android, applying best practices in user interface design, backend integration, and API handling. I also developed solutions using WordPress, enhancing functionality through plugins and e-commerce tools. My work on AI-based tools and real-world applications has prepared me to step confidently into roles in web development, mobile app development, and backend programming.

PROFESSIONAL EXPERIENCE AND PROJECTS

Tools Bag – Toolkit for images, files and AI tools

Aug 2024 – Nov 2024

- Designed and developed a web application using React.js, leveraging Node.js and NPM packages to build reusable React components.
- Applied Bootstrap and custom CSS to create a responsive and visually appealing user interface.
- Integrated OpenAI APIs to implement AI-powered tools and features within the application.

Restaurant Management System – Website with SQL database

Dec 2022 – Jan 2023

- Designed and developed a restaurant management web application with integrated user authentication.
- Integrated a third-party image API to dynamically fetch and display images.
- Implemented features like search, image preview, and responsive grid layout for enhanced user experience.

Image Gallery website – Website with SQL database

Jan 2023 – Feb 2023

- Developed a responsive image gallery website using HTML, CSS and JavaScript.
- Integrated a third-party image API to dynamically fetch and display images.
- Implemented features like search, image preview, and responsive grid layout for enhanced user experience.

Final year project UCP – AI driven programming language converter

March 2024 – July 2025

- Developed an AI-powered platform for bidirectional programming language conversion between Node.js and Python.
- Fine-tuned the CodeT5 model to improve accuracy and quality of code translations.
- Designed and implemented an interactive user interface to ensure a smooth and engaging user experience.
- Integrated backend and frontend components for seamless real-time code conversion.

SKILLS

Development tools: Visual studio code, NPM, Node.js, Jupyter Notebook, Android Studio, MySQL

Communication: Strong written and verbal skills, experience with team coordination

Leadership: Task Delegation, Conflict Resolution, Time Management

Documentation: Requirement Gathering, Status Reporting, Presentation Skills

Technical: React.js, Node.js, Express.js, Bootstrap, MySQL, Python, Web development, HTML, CSS, GitHub, Model training

Soft Skill: Communication, Problem-Solving, Collaboration, Critical Thinking, Creativity, Adaptability, Accountability

EDUCATION

University of Central Punjab – BSc Computer Science

Mar 2021 – July 2025

Relevant Courses: Introduction to computing, Programming fundamentals, OOP, Data structures, Operating systems, Web Application Development, Introduction to software engineering, Introduction to deep learning.

CERTIFICATES

- **Web Development in React.js | 2024**
 - Earned an official certification in React.js through hands-on projects.

- Learned and implemented React Hooks and state management.
 - Built interactive UI components with a focus on reusability and performance optimization.
- **MySQL Certification SoloLearn | 2023**
 - Gained hands-on experience in database design, queries, and optimization
 - Applied practical skills in managing and querying MySQL databases through interactive exercises.
- **Python Certification – Coursera | 2024**
 - Earned official certification in Python programming through Coursera's structured learning path.
 - Worked on real-world projects involving file handling, data structures, and modular programming.
 - Built a strong foundation in problem-solving, logical thinking, and writing clean, maintainable Python code.