

Syed Mushahid Hussain

Software Engineer | Full Stack Developer | Web Development

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Professional Experience

Student Assistant (Software Engineering) 08/2024 – Present
Philipps-Universität Marburg Marburg, Germany

- Architecting an AI powered medical training portal using **React.js**, **Node.js**, and **RAG pipelines**, integrating vector search to automate complex student assessments.
- Managed and optimized a **PostgreSQL database housing 2 Billion+ records**, implementing indexing strategies and improving queries with **40–70%** speed gains.

Student Assistant (Computational Biology) 06/2025 – Present
Justus Liebig University Giessen, Germany

- Pioneered a genome scale metabolic model (GEM) using **Python** and **COBRApy** to analyze host pathogen interactions.
- Authored complete technical documentation ensuring **100% reproducibility**.
- Writing the research paper based on GEM simulation results.

Team Lead & Senior Full Stack Developer 11/2023 – 04/2024
Xtream New Jersey, USA (Remote)

- Led a remote team of 5 developers delivering a SaaS platform with **100% client satisfaction**.
- Built high throughput REST APIs with **Redis caching**, reducing response times by **60%**.
- Introduced automated QA pipelines, reducing post release bugs by **80%**.

Team Lead 01/2024 – 03/2024
Daxno Technologies Rawalpindi, Pakistan

- Improved Agile workflows, cutting delivery cycles by **20%**.
- Mentored junior engineers on Clean Code, reducing bug rates by **50%**.

Full Stack Web Developer 05/2022 – 12/2023
Daxno Technologies Rawalpindi, Pakistan

- Delivered **30+ web applications** using MERN and Laravel.
- Built reusable admin dashboards, reducing development time by **40%**.
- Migrated monoliths to microservices, improving performance by **30%**.

Education

M.Sc. Computer Science 04/2024 – Present
Philipps-Universität Marburg Marburg, Germany

B.Sc. Software Engineering 08/2019 – 07/2023
Riphah International University Islamabad, Pakistan

- **Awards:** 1st Place – Coding Competition; 1st Place – Web Development Competition.

Technical Proficiency

Frontend Development: JavaScript (ES6+), TypeScript, React.js, Next.js, Redux, HTML5, CSS3, Tailwind.

Backend Development: Node.js, Express.js, PHP, Laravel, REST APIs, Web Scraping.

Data & AI: Python, RAG Pipelines, Vector Search (pgvector), COBRApy, OpenAI APIs, Pandas.

Infrastructure & Tools: Docker, AWS, Git/GitHub, CI/CD, Redis, Nginx, Linux/Bash.

Databases: PostgreSQL, MongoDB, MySQL, Firestore.

Leadership & Communication

- **Team Leader:** Erasmus+ Study Lab (Poland) – Represented Germany.
- **Speaker:** German Bioinformatics Conference – Metabolic modelling research.

Languages

- **English:** C2 (Proficient)
- **German:** A2 (Active Learner)
- **Urdu:** Native

References

Available upon request.

Open Source Projects

Ginti (NPM Package)

Open Source

Creator & Maintainer

- Developed a zero dependency JavaScript library for smart number formatting.
- Package link: <https://www.npmjs.com/package/ginti>