

MEHWISH HANIF

FULL STACK SOFTWARE ENGINEER

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I'm a software engineer with a strong foundation in development and problem-solving, having earned both a bachelor's and master's degree in computer science. My expertise includes a solid understanding of data structures, algorithms, and hands-on experience building web applications.

Technical Skills: JavaScript | Python | React | Node | Express | Flask | Redux | SQL | PostgreSQL | Git | Azure DevOps

Relevant Skills: Agile Methodologies | Algorithms | Object Oriented Design | Web Application Development

EDUCATION

App Academy \ Full Stack Web Development San Francisco, CA	03/2025
Saarland University \ MS in Computer Science Saarbrücken, Germany	09/2018
National University of Computer and Emerging Sciences \ BS in Computer Science Lahore, Pakistan	05/2013

PROJECT EXPERIENCE

BNB CONNECT React Redux Node Express PostgreSQL SQLite3 Sequelize	GitHub \ Demo \ Live
<ul style="list-style-type: none">Implemented custom user authentication utilizing BCrypt Hashing Function on the backend and React Auth Routes on the frontend to prevent storage of plain text passwords and restrict access to user specific data and features.Optimized database queries using eager loading to resolve the N+1 problem and employed subqueries to improve performance, ensuring efficient handling of large datasets without compromising speed or reliability.	
GROUP PROJECT Python Flask React Redux PostgreSQL SQLAlchemy SQLite3	GitHub \ Demo \ Live
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CAPSTONE PROJECT All Tech You Used Should Be Listed Here	GitHub \ Demo \ Live
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WORK EXPERIENCE

R&D SOFTWARE ENGINEER Paragon Semvox GmbH Saarbrücken, Germany	Dec 2017 – Sep 2018
<ul style="list-style-type: none">Implemented an unsupervised learning approach in a constrained data environment, leveraging word embeddings to enhance semantic understanding and enable more accurate clustering of short text, achieving a 27% improvement in data retrieval efficiency over an existing supervised model.Implemented the model using OOP principles in Java, employing efficient data structures, algorithmic design, and multithreading to enhance processing speed and accuracy.	
R&D SOFTWARE ENGINEER ZeMA GmbH Saarbrücken, Germany	Nov 2016 – Nov 2017
<ul style="list-style-type: none">Optimized real-time data communication on the assembly line by replacing inefficient HTTP polling with WebSockets in Java, reducing network overhead and cutting data transmission time by 50%.Designed dynamic views for the UI of laser projector with Angular directives to update the interface instantly based on live feedback, improving the precision and efficiency of the assembly line process.	
SOFTWARE ENGINEER Xavor Lahore, Pakistan	June 2013 – July 2014
<ul style="list-style-type: none">Engineered and launched the Assist+ navigation add-on for Oracle Agile PLM, utilizing full-stack development (Java, jQuery, JavaScript, CSS, HTML, SQL) to enhance system navigation and improve functionality and user experience.Ensured 100% on-time delivery with minimal updates, maintaining code quality, resolving bugs, and optimizing performance to guarantee system reliability and software efficiency.	