Zainub Waqas

Amherst, MA 01003, United States | zwaqas@umass.edu | +92 305 9561561

EDUCATION

University of Massachusetts Amherst, USA   Amherst, MA
Bachelor of Science in Computer Science | Dean's List | Chancellor's Award Recipient

WORK EXPERIENCE

Systems Limited   Islamabad, Pakistan
Intern - Web Development Team , Digital Consulting   *Sep 2024 - Present*

- Developed and deployed over 7 full-stack applications using MEAN and MERN stacks, leveraging Angular and React for dynamic and responsive front-end interfaces. Projects include a tourism app (GoLocal Guide) that connects users to 50+ nearby hotels, restaurants, and attractions, facilitating seamless trip planning with an interactive map feature.
- Created 30+ reusable and responsive UI components using React, Bootstrap, and Angular, significantly enhancing user engagement, accessibility, and visual consistency across applications.
- Boosted performance by 30% through efficient state management in Angular and React and seamless API integrations, resulting in faster load times and smoother user experiences across all modules.

Marriott International   Bethesda, MD, USA
Software Engineering Intern - Digital Technology   *Jun 2024 - Aug 2024*

- Developed and implemented an AI-driven tool to automate the conversion and validation of API responses, significantly reducing manual effort and accelerating development cycles by 50% during Marriott Digital Technology Transformation
- Enhanced response accuracy and consistency through AI, achieving 90-95% accuracy for queries, and integrated a human intervention step to mitigate AI hallucinations

International Moving and Trading Company   Islamabad, Pakistan
Software Engineering Intern   *Jun 2023 - Sep 2023*

- Developed and implemented a new automated inventory management feature using Python and Django, improving internal logistics efficiency by 25%
- Designed and integrated a real-time shipment tracking module using React and Node.js, reducing customer inquiries by 30%
- Conducted code reviews and testing with Git and Jenkins, leading to a 15% decrease in bug reports while utilizing Agile methodologies and Jira for project management

PROJECT EXPERIENCE

Virtual Voice Assistant   Summer 2024
Gen AI Project

- Developed an AI-powered virtual assistant using NLP techniques to understand user commands, extract task-related information, and provide intelligent reminders and notifications, achieving a 90% accuracy rate
- Incorporated machine learning algorithms to learn user preferences and suggest relevant tasks or prioritize tasks based on importance and deadlines, resulting in a 30% increase in task management efficiency and a 20% improvement in user satisfaction

Patient Triage System   Winter 2023
Enhanced Healthcare Coordination Project

- Designed and developed a comprehensive Patient Triage System to facilitate seamless coordination between hospitals and insurance providers by creating an intuitive web-based platform enabling hospitals to securely submit patient information and insurance claims, optimizing the reimbursement process

LEADERSHIP EXPERIENCE

Youth Exchange and Study Program, US Department of State   Springdale, PA
Cultural Ambassador   *Jan 2021 - Jan 2022*

- Represented Pakistan in a year-long US foreign exchange program, fostering cross-cultural dialogue, adapting to new cultural environments while living with an American host family and working with diverse peers from 28 other countries

SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript, C, C++, HTML, CSS, SQL

Frameworks & Libraries: React, Angular, Bootstrap, jQuery, Node.js, Next.js, Express

Databases: MySQL, MongoDB, **Tools and Methodologies:** VS Code, Git, Figma, Agile, Scrum