

Yousra Hanif

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Work Experience

Junior Software Developer/ Programmer | NYC Department of Education, FIHS | New York, NY | Aug 2024 – Present

- Assist in developing and maintaining the school's official website, ensuring that students, teachers, and parents have access to the latest information by implementing responsive design and robust backend solutions.
- Developed and implemented a custom application for managing student and teacher records, automating the process of data updates and uploads to the website, significantly reducing manual data entry errors.
- Collaborate with cross-functional teams to integrate new features and updates, enhancing user experience and improving the overall performance of the school's website.

Coding Instructor | The Coder School | Bayside, NY | Dec 2023 – Present

- Instruct and mentor 20 students weekly in Python, Java, JavaScript, and Scratch, focusing on object-oriented programming (OOP) principles, data structures, and algorithms.
- Develop and implement customized lesson plans and exercises centered on real-world projects and LeetCode-style problems to enhance students' problem-solving skills and coding proficiency.
- Facilitate web development with React, HTML, CSS, and JavaScript, guiding students in building interactive, responsive applications.

Associate Software Engineer | Infosys Limited | Manhattan, NY | Jun 2022 – Dec 2023

- Transformed monolithic InfyTel project into microservices architecture leveraging Consul, Spring Cloud, Load Balancer, Spring Cloud Gateway, Config, and Resilience4J.
- Developed and optimized learning platform with React.js, CSS, HTML, and Bootstrap, improving user experience and productivity.
- Implemented RESTful APIs for smooth frontend-backend integration and supported backend functionality using Node.js and Express.

Additional Experience

Software Engineering Fellow | Headstarter AI | New York, NY | Jul 2024 – Present

- Built and deployed 5 AI projects in 5 weeks using React JS, Next.js, Firebase, Clerk, and Vercel for iterative deployment
- Worked in a team of 3 to develop an interactive customer support agent using Next.js, integrated a custom RAG pipeline using OpenAI and Pinecone that responds based on a company's knowledge base3.
- Participate in weekly sessions with engineers from Amazon, Stanford, Capital One, and venture-backed startups.

Robotics and Python Instructor | The Coder School | Bayside NY | Summer Code Camp | Jul 2024 -Aug 2024

- Conducted engaging workshops in robotics engineering and Python programming, teaching students fundamental concepts to advanced techniques, including block-based coding with Blockly and Python programming from basics to project development.
- Developed and led hands-on projects in both robotics and Python, integrating sensors and motors for robotics and guiding students through Python applications such as Turtle graphics and comprehensive project builds, fostering creativity and problem-solving skills.
- Mentored students through the design, programming, and troubleshooting of robotic systems and Python code, enhancing their understanding of engineering and programming concepts while promoting critical thinking and innovation.

Software Engineering Panelist, Exploring Careers in Tech Event | The Flushing International High School | Flushing NY | May 2024

- Provided expert insights on software engineering careers, including industry trends and emerging technologies.
- Addressed challenges and strategies for BIPOC and historically minoritized individuals in tech, focusing on career advancement.
- Collaborated with industry professionals to enhance students' understanding of tech career paths and essential skills.

Technical Skills

Languages: JavaScript, Java, Python | **Frontend Frameworks:** ReactJS, CSS, HTML5, Tailwind, Bootstrap | **Backend + Database:** Node.js, Express.js, Spring Boot, SQL, Firebase, MongoDB | **Tools:** Git, GitHub, Postman | **Cloud:** Amazon Web Services (AWS), Microsoft Azure

Academic Projects

Rate My Professor Website | New York, NY | Headstarter AI | Jul 2024 – Aug 2024

- Developed and deployed a web application using Next.js, React, OpenAI, and Pinecone, enabling users to query and receive detailed insights about professors by reading data from a custom database and external sources.
- Collaborated with a team of 3 to integrate web scraping and data aggregation techniques, successfully collecting and summarizing information from external Rate My Professor websites, providing users with comprehensive and accurate professor ratings.

AI Customer Support System | New York, NY | Headstarter AI | Jul 2024 – Aug 2024

- Built a dynamic customer support application using Next.js, React, and OpenAI, enabling users to ask questions and receive accurate, real-time responses through a sophisticated AI-driven interface.
- Deployed the application on Vercel, ensuring fast and reliable performance, and integrated advanced features for seamless user interaction and efficient query handling.

Full Stack Restaurant Website | New York, NY | Web Development Course | Mar 2024 – Jul 2024

- Designed and implemented a comprehensive e-commerce platform for restaurants using Node.js, React, and JSX, integrating Stripe for secure payment processing and enabling users to search for, order, and pay for food seamlessly.
- Developed a user-friendly interface and robust backend system to support order management and real-time updates, enhancing the overall customer experience and operational efficiency for restaurant clients.

Education

- **Master of Science in Computer Science** | Georgia Institute of Technology | Expected: May 2026 | CGPA: 4.0/4.0
- **Bachelor of Arts in Computer Science** | Queens College, CUNY | May 2022 | CGPA: 3.7/4.0