

Shams Hasan

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TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, Python, R, SQL, Shell Scripting, YAML, CSS, HTML

Tools and Technologies: Angular, .NET, AWS, Docker, Figma, Git, MySQL, Karma, Jasmine, Postman, Vercel, JSON

Libraries: NumPy, Pandas, Matplotlib, NGXS, SQLite

EDUCATION

Kennesaw State University

Bachelor of Science in Software Engineering

Kennesaw, GA

May 2021 – May 2025

EXPERIENCE

Software Engineer Intern

Zebra Technologies

May 2024 – August 2024

Kennesaw, GA

- Optimized the testing lifecycle for Zebra's SaaS task-tracking dashboard used in retail stores by developing custom test cases in HTML and TypeScript with Karma and Jasmine, cutting test execution time by **40%**.
- Delivered **100%** code coverage by improving test suites, identifying edge cases, and optimizing test logic for all Angular components, minimizing potential production issues by **30%**.
- Enhanced customer satisfaction by **25%**, as reported by Zebra's WorkCloud software and Salesforce CRM, by identifying and resolving bugs and optimizing non-reusable code through thorough testing practices.

Programming Tutor

Georgia State University

October 2023 – December 2023

Alpharetta, GA

- Mentored **10** students in mastering object-oriented programming (OOP), data structures, and algorithm design
- Fostered a supportive environment to empower students in building robust applications.

PROJECTS

Automated POS – J's Restaurant | [GitHub](#) | *Project Management, Agile, Java, Docker, MySQL, GitHub, YAML*

- Led a four-member team to develop a custom POS system for J's Restaurant, using JavaFX for the front-end UI.
- Created software prototypes in Figma to design and iterate the user interface before development.
- Implemented containerized MySQL for portable backend access and secured sensitive data with .env files and YAML configurations.
- Managed project timelines and deliverables in an Agile framework, ensuring clear communication and team alignment.

Housing101 | [Website](#) | [GitHub](#) | *Angular, TypeScript, Karma, Jasmine, SASS, Git, OpenAI, YAML, Vercel*

- Built and launched a user-friendly housing app with search filters and signup functionality on Vercel.
- Reengineered TypeScript logic using Angular's NGXS state management to enhance loading performance.
- Achieved **100%** test coverage for the application and automated test case status checks with GitHub Actions and YAML, delivering real-time pass/fail badges.

Book-io Scraper | [GitHub](#) | *HTML, XML, Python, Git, Data Structures*

- Developed a robust Python web scraping application to extract and categorize book titles from a bookstore website, organizing them by star ratings (1 to 5 stars) for enhanced data analysis.
- Optimized the scraping process to efficiently scan through hundreds of pages of books, significantly reducing processing time and improving resource utilization.

You-Can-Do-It! | *AWS, JavaScript, Node.JS, REST*

- Developed a serverless to-do list application using AWS Lambda and DynamoDB, demonstrating cloud-based proficiency.
- Designed RESTful APIs for efficient frontend-backend communication and optimized resource usage by implementing a scalable backend solution with AWS Lambda, integrating real-time data storage using DynamoDB.