

Shams Hasan

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TECHNICAL SKILLS

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

Tools and Technologies: Angular, C, .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

- Achieved **100%** test coverage for TypeScript code in Zebra's SaaS task-tracking dashboard by developing comprehensive test cases using Karma and Jasmine, ensuring robust validation of all components and edge cases.
- Enhanced code quality and reliability by refining test suites, addressing edge cases, and optimizing test logic for Angular components, reducing the likelihood of production issues.

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 five-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.