

Shams Hasan

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Ambitious and driven software engineering student with 6 months of experience in the software development field, specializing in developing frontend applications using Angular and TypeScript.

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 task-tracking dashboard used in retail 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 | *Project Management, Agile, Java, Docker, MySQL, GitHub, YAML*

- Managed the project lifecycle for a four-member team that built a Point-of-Sale system from the ground up to enhance restaurant task efficiency at J's Restaurant, using the JavaFX graphical user interface.
- Implemented containerized MySQL images to facilitate easy and portable access to backend data, while managing sensitive information through .env files and ensuring data security with YAML configuration.
- Monitored project timelines and goals throughout the Agile Life Cycle, documenting changes and updates to keep team members informed and motivated about their roles and responsibilities.

Housing101 | *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 | *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.

TECHNICAL SKILLS

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

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

Libraries: NumPy, Pandas, Matplotlib, NGXS