Sarah Albastaki

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Education

Georgia Institute of Technology — Atlanta, GA
Bachelor of Science in Computer Science, GPA 3.8 — *Aug. 2021 – May 2025*

Work Experience

Software Development Engineer Intern — May 2024 – Aug. 2024
Amazon — *Bellevue, US*

- Streamlined a 5-step, manual vendor onboarding process by designing an automated internal portal solution.
- Reduced the number of required inputs and files by 80% by performing a comprehensive study on unused fields.
- Improved data handling efficiency by 60% by engineering the backend architecture by leveraging AWS services.
- Reduced onboarding time by 40% through collaboration with cross-functional teams to integrate the portal with existing systems.

Full-Stack Web Developer Intern — May 2023 – Aug. 2023
Intentional Technology LLC — *Remote*

- Independently designed, developed, and deployed a full-stack web application using Figma, React, and Express.
- Developed a blog page that allows users to request customized articles generated by ChatGPT using OpenAI API.
- Built a Neo4j database for storing and filtering contact form submissions, eliminating repetitive and blank entries.
- Maintained code hygiene using Git branching and pull request strategies for version control.

Curriculum Developer Intern — Nov. 2022 – Dec. 2022
Ministry of Education — *Dubai, UAE*

- Designed and developed a set of Swift and Python projects, aimed at providing students with practical opportunities to implement and enhance their skills in both programming languages.
- Reviewed and edited 400 pages of Applied Computer Science textbooks for the UAE advanced high school program, ensuring accuracy of code and relevance to the current industry.

Projects and Programs

Smart and Connected Bio electronics | *Machine learning, 3D printing, PCB manufacturing* Aug. 2023 – Present

- Designed and developed smart glasses equipped with a camera to assist visually impaired individuals in detecting and interpreting Braille without the need for physical touch.

The Hive Prototype Instructor | *Laser cutting, 3D printing, PCB, CAD, Consulting* Aug. 2023 – Present

- Volunteered at The Hive Maker-space, assisting end users with machinery, tools, and prototyping their ideas.
- Implemented streamlined management of 3D printing queues and inventory, achieving a one-day print wait time.
- Operated laser cutters to fulfill end user requests while ensuring machine and user safety.

Silver Coding Ambassador | *Python, AI tools, Leadership, Git* Jan. 2022 – Present

- Chosen as one of 30 Coding Ambassadors by the UAE Ministry of AI to foster the integration of AI nation-wide.
- Presented an informative session and demo on educational AI tools to 350 students from the local police academy.
- Led the Ambassador's Rewards and Recognition initiative by establishing metrics, such as the number of Git pull requests, resolved issues, and commits to reward contributions.

Student Government Association - IT Board | *SQL, Professional Networking* Oct. 2022 – Present

- Created an app for board members to schedule meetings efficiently, utilizing SQL databases of available times.
- Organized monthly Tech Talks to enhance students' professional experience by hosting industry experts.

The (Almost) Firefly | *Arduino IDE, Eagle, Laser cutting, PCB design, Adobe Illustrator* Aug. 2021

- Independently conceptualized and fabricated a motion-responsive dress with flickering lights using motion sensors.
- Designed PCB component data paths in Eagle and established wired connections using conductive yarn.
- Utilized Adobe Illustrator to design sewing patterns and achieved precise pattern cuts through laser cutting.
- Configured the project's functionality by writing and uploading code using Arduino IDE and the Adafruit library.

MIT's FabAcademy | *Rapid prototyping, I2C protocol, PCB, Arduino IDE, CNC, CAD* Jan. 2021 – Aug. 2021

- Awarded a full scholarship for participation in FabAcademy, involving weekly project execution with a new tool.
- Developed skills in project management, networking and communications, machine design, and prototyping tools.
- Developed a CNC machine using recycled materials, achieving an 89% cost savings compared to other models.
- Milled and soldered a programmer PCB utilized for programming other boards within the academy.

Technical Skills

Languages: Java, Python, C, JavaScript, HTML/CSS, TypeScript, Assembly
Frameworks: React.js, Node.js, Express.js, Bootstrap, AWS
Developer Tools: Git, Docker, VS Code, IntelliJ, Arduino IDE, Eagle, Fusion, SolidWorks, API, Makefile, Homebrew
Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Computer Organization and Programming, Systems and Networks, Smart Textiles, Statistics and Applications, Linear Algebra, Objects and Design