

# Suzan Manasreh

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## EDUCATION

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### Georgia Institute of Technology

Atlanta, GA

*Bachelor of Science, Computer Science; GPA: 3.8/4.00*

*Expected: December 2024*

**Threads:** System-Architecture/Modeling-Simulation

**Awards:** Faculty Honors, Dean's List, President's Undergraduate Research Award

**Relevant Coursework:** Data Structures & Algorithms, Computer Organization & Programming, Systems & Networks, Operating Systems, Digital Design Lab, Processor Design, Intro to AI, Intro to High-Performance Computing, Probability & Statistics, Linear Algebra, Differential Equations

## SKILLS

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**Languages:** Python, C/C++, Java, Go, Javascript, Typescript, Fortran, Shell, Kotlin, Mathematica, R, Matlab, x86 Assembly, VHDL, Verilog, Kotlin, Swift

**Tools & Technologies:** Node.js, React.js, Ruby on Rails, PostgreSQL, Linux/Unix, Git, Docker, Gerrit, Gitlab, Jira, Postman, Jupyter Notebooks, Matplotlib, MPI, Paraview, Quartus Prime, FPGA's, GNU Compilers, CMake, XCode

**Skills:** Agile, Scrum, OOP, DevOps, CI/CD, TDD, Data Visualization

## WORK EXPERIENCE

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### Full Stack Software Engineering Intern

Remote

*Cisco Meraki*

*May 2023 – August 2023*

- Worked with the DashXL team to design, develop, test, and deploy the API for a tool that adds or removes feature flags for customers. Integrated the tool into Meraki's user-facing dashboard.
- Built a backend with Ruby on Rails and Go that sends out requests across 100's of units of a distributed system and aggregates the data back for the user.

### Software Developer Intern

Remote

*IBM*

*May 2022 – August 2022*

- Worked with an IBM Z/OS DevOps team to get the Dependency Based Build API ready for a new release by fixing security issues, correcting defects, and developing new features.
- Used Java, Javascript, HTML, and Jenkins to design, develop, and test a method to statically generate customer-facing build report web pages.

## UNIVERSITY EXPERIENCE

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### Student Assistant, Computational Physics Group

Atlanta, GA

*GT Computational Science & Engineering*

*May 2024 – August 2024*

- Achieved 11% speedup on large-scale parallel Fortran cell simulator code by updating and utilizing linear algebra libraries and integrated them into a new automated build system with CMake, shell, and Python.
- Created CFD simulations of capsule flow through microfluidic device meshes, analyzed time-series data with matplotlib and numpy, and ray-traced simulation graphics in Paraview with GPU's.
- Created CI/CD pipeline for testing and profiling subroutines on distributed system (HPC cluster).

### Undergraduate Researcher, Rogues Gallery

Atlanta, GA

*GT Vertically Integrated Projects*

*January 2023 – December 2023*

- Implemented SLAM algorithm with spiking neural networks and Lava framework for neuromorphic hardware.
- Used TensorRT to help train Jetson NANO to detect objects efficiently.

### Teaching Assistant, CS 2340: Objects & Design

Atlanta, GA

*GT College of Computing*

*January 2023 – December 2023*

- Held office hours and did grading for 700+ students on Swift, Android Studio, and React app projects.
- Created course materials on software architecture & design principles.
- Helped develop course website in React.