

# Aya Salama

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## EDUCATION

### Stevens Institute of Technology

Hoboken, NJ

*Bachelor of Science in Computer Science, Minor in Cybersecurity*

*Expected December 2025*

*Cumulative GPA: 3.87/4.0*

*Awards:* Deans List 2022-2024, Edwin A. Stevens Scholarship, Martha Bayard Stevens Scholarship

*Relevant Coursework:* Data Structures, Algorithms, Computer Architecture and Organization, Linear Algebra, Statistics, Operating Systems, Systems Programming, Database Management Systems, Concurrent Programming (GoLang)

## SKILLS

**Programming Languages:** Python, Java, Racket/Scheme, C, C++, HTML, CSS, JavaScript, R, ARM Assembly, Ocaml, Bash, SQL, Swift

**Software:** Visual Studio Code, Jet Brains IDE's, MS Office Applications, AutoCAD, Power BI, XCode

**Concepts:** Data Modeling, Object-Oriented Design, Client-Server Protocols, APIs, Embedded Systems

## EXPERIENCE

### Global Technology, Software Engineer Intern

June 2024 – Aug. 2024

*Prudential Financial*

*Newark, NJ*

- Incoming Summer 2024.

### Research Assistant

Oct. 2023 - Present

*Stevens Institute of Technology – Gissinger Group* | [Link](#)

*Hoboken, NJ*

- Collaborated with Dr. Gissinger in the examination of chemical reactions through the application of graph theory.
- Applied chemical principles to a reaction dataset using the python programming language and external libraries like RDKit.
- Enhanced Unix proficiency by connecting to an external supercomputer for advanced computational work.

### Academic Center Support Tutor

Sep. 2023 - Present

*Stevens Institute of Technology*

*Hoboken, NJ*

- Offered one-on-one or group tutoring sessions to college students to help them better understand course materials and improve their academic performance.
- Demonstrated expertise in core Computer Science and Math courses to effectively assist students with their coursework.

### Math Instructor

Aug. 2023 - June 2024

*Mathnasium*

*Westfield, NJ*

- Provided comprehensive instruction and mentoring to students ranging from kindergarten through 12th grade in the core principles of mathematics.
- Proficiently simplified intricate mathematical concepts into an easily understandable language.

## PROJECTS

### FUSE File System

May 2024

*Stevens Institute of Technology – Operating Systems*

- Implemented FSX492, a simple derivation of the Unix Fast File System, using the C programming language.
- Leveraged the FUSE toolkit to develop the file system as a user-space process.
- Utilized a customized block device interface to access a virtual disk stored within a file.

### Space Hacks

Sep. 2023

*GirlHacks 2023 Hackathon* | [Link](#)

- Collaborated with a team of fellow hackers to brainstorm ideas, design the user interface, and implement functionality using JavaScript, HTML, and CSS.
- Integrated various NASA APIs to provide real-time data and images related to space exploration.

### Sudoku Solver Visualizer

June 2023

[Link](#)

- Deployed a Sudoku solver utilizing a backtracking algorithm while gaining proficiency in JavaScript.
- Generated a user-friendly interface to enhance the accessibility and usability of the web-application.