

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, Database Design

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.