Mariam Elnaggar

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EDUCATION

Stevens Institute of Technology | Hoboken, NJ Expected May 2026

Bachelor of Engineering in Computer Engineering

Coursework: Operating Systems, Machine Learning, Probability and Statistics, Information Systems, Data Structures & Algorithms, Database Management Systems

SKILLS

Software: Visual Studio Code | Pycharm | Git | Linux | Eclipse | PostgreSQL | MS Office

Programming: Java, Python, C++, C

Soft Skills: Time Management, Problem Solving, Collaboration, Communication

EXPERIENCE

Academic Support Center at Stevens Institute of Technology

Tutor October 2023 - Current

- Provided tutoring support to students in various computer engineering courses, focusing on programming concepts, data structures, and algorithms.
- Facilitated group sessions to foster peer-to-peer learning and problem-solving.

Electrical and Computer Engineering Department at Stevens Institute of Technology

Teaching Assistant and Grader for Circuits and Systems September - December 2023

- Assisted professor in delivering high-quality education by providing lab instructional support to students and grading exams.
- Communicated with the professor and other TAs to coordinate teaching activities and grading rubrics.

Erfan and Bagedo Hospital

IT Intern July - August 2023

- Collaborated with IT professionals to resolve technological issues encountered by health practitioners during the deployment of a new hospital information system.
- Assisted in developing SQL functions for generating hospital reports.

PROJECTS

File System Implementation Using FUSE Toolkit

- Collaborated on a group project to implement a file system as a user-space process using the FUSE (Filesystem in Userspace) toolkit.
- Configured the environment to handle file system operations in user-space and ensured smooth interaction with the kernel.

Python Housing Market Analysis

- Developed a Python program to analyze a sample of the housing market using data analysis libraries such as Pandas and Matplotlib.
- Visualized trends in housing prices and identified key factors affecting market changes over time.

Gallois Autonomous Robot Competition

- Programmed an autonomous mobile robot to locate targets using a LiDAR sensor connected to the MQTT network while avoiding obstacles.
- Worked in a multidisciplinary team, qualifying for the finals and placing third out of 100+ teams.

IoT Indoor Environment System

- Designed and programmed an IoT system to monitor and display real-time data for indoor conditions.