

# SALMAN HAJIZADA

## Computer Science @ Carnegie Mellon

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📍 Doha, Qatar

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## EDUCATION

Carnegie Mellon University

**B.S. in Computer Science**

📅 2023 - 2027

📍 Doha, Qatar

**GPA: 3.93/4.00** Dean's List: 5 semesters

**Selected Coursework:** Algorithm Design & Analysis, Parallel & Sequential Data Structures and Algorithms, Computer Systems, Cloud Computing, Embedded Systems, Software Foundations of Security & Privacy, Functional Programming, Great Ideas in Theoretical CS, Machine Learning, Probability Theory, Linear Algebra.

## PROJECTS

Snoonu Smart Dispatch

- Built a multi-agent dispatch simulation at the Snoonu Hackathon using combinatorial bidding; reduced required fleet size by 14% while maintaining sub-15min delivery times.

City Classifier (CNN)

- Trained a CNN to classify cities from urban images with >80% accuracy; built a Selenium pipeline to scrape and assemble the dataset.

Graph Theory Library

- Wrote a Python graph algorithms library covering shortest paths, Eulerian cycles, and project scheduling.

Autonomous Robotics (Independent Study)

- Built perception, reasoning, and planning components for autonomous navigation in ROS and Gazebo.

## TECHNICAL SKILLS

**Programming:** Python, C, JavaScript, SQL, Bash, SML, HTML/CSS

**ML & Data:** PyTorch, TensorFlow, Keras, NumPy, Pandas, Jupyter, LangChain

**Tools:** Git, Linux, FastAPI, Selenium, ROS, LaTeX

**Spoken:** English, Russian, Azerbaijani

## ACTIVITIES

- President** (2025-26) and **Treasurer** (2024-25) of the CMUQ Muslim Students Association. Led an 18-person executive team running weekly community, religious, and outreach events for the campus.
- Mentored high school students in introductory programming and CS fundamentals at Mindcraft CS Workshop.

## EXPERIENCE

AI Engineer Intern

Avey

📅 May 2025 - Aug 2025

📍 Doha, Qatar

- Wrote a FastAPI service exposing transformer embedding and retrieval endpoints, used inside Avey's LangChain workflows for medical text.
- Fine-tuned transformer models on healthcare text for embedding, classification, and retrieval tasks.
- Wrote PyTorch training and evaluation scripts; packaged the trained models for use by other Avey engineers through internal APIs.

Machine Learning Intern

Avey

📅 May 2024 - Aug 2024

📍 Doha, Qatar

- Fine-tuned transformer models for clustering and classification of clinical text.
- Compared candidate embedding models using clustering and classification metrics on Avey's medical text data.

Software Engineering Intern

OpenStack

📅 Jun 2023 - Aug 2023

📍 Remote

- Added OpenStack SDK support for baremetal virtual media attach/detach APIs.
- Debugged API stability issues and landed reviewed SDK patches through OpenStack's upstream Gerrit workflow.

Course Assistant / Head CA

CMU in Qatar

📅 Spring 2024 - Present

- As Head CA for 15-122 Imperative Computation (Sp 2026) and 15-112 Fundamentals of Programming (Sp 2025), coordinated the CA team, helped plan assignments and grading rubrics, and hosted office hours.
- CA for 15-288 ML in a Nutshell (Sp 2026), 15-122 (Sp 2025), and 15-112 (Sp + Su 2024); SI Leader for 15-112 (Fall 2024).
- Wrote notebook autograders, grading rubrics, and practice materials; led group sessions reinforcing algorithmic reasoning and programming fundamentals.