

Irem Naz Celen

+971 56 534 8325 — iremnaz.celen@nyu.edu — Abu Dhabi, United Arab Emirates — LinkedIn — GitHub

Education

New York University, NYC

January 2024 - May 2024

New York University Abu Dhabi, Abu Dhabi, UAE

Expected May 2025

Majoring in Computer Engineering with a minor in Interactive Media - GPA: 3.84/4

Relevant Classes: *Data Structures and Algorithms, Computer Organization and Architecture, Graduate-level Machine Learning, Operating Systems, Databases, Embedded Systems, Linear Algebra, ODE, Software Engineering*

Work Experience & Projects

Researcher on Embodied AI at Multimedia and Visual Computing Lab,

with Professor Yi Fang at New York University Abu Dhabi

September 2024 - Current

- Conducting a thesis project under direct supervision of Professor Yi Fang, PhD, on the topic of Embodied AI by finetuning a Vision Language Model for a navigation task.
- Collaborating with 3 other engineering students and PhD students at the Multimedia and Visual Computing Lab.

Web Developer at the Gazelle,

Student newspaper at NYUAD

September 2024 - Current

- Expanded the MySQL database, and introduced a new Archives page layout and design, prototyped using Figma.
- Listed new page development points, tested for user feedback and started implementations using Node.js

Research Assistant at Modern Microprocessor Architectures (MoMA) Lab,

at New York University Abu Dhabi

May 2024 - August 2024

- Conducted literature review on the topics of Mutli-GPU usage across 50+ papers and devised methodology.
- Utilized kernel profiling with Nvidia's Nsight Compute and Nsight Systems to analyze GPU-enabled Machine Learning algorithms such as Logistic Regression and K-Nearest Neighbour.
- Optimized and compared methods for Multi-GPU programming using CuPy, CUDA and their hybrid versions, against cuML across varied memory usage, GPU count (1, 2, 4 and 8), data size, all recorded at GitHub repository.

Entrepreneur in "A Ticket For Your Future" Program, Istanbul, Turkiye

at Arcelik Turkiye/Beko Global

July 2023

- Initiated a startup proposal, BudgetBites, to bring together potential households and next-day food products while participating in an intense 2 weeks of workshops and project building under Arcelik mentorship.
- Interviewed 5+ users through User Testing platform and completed Persona Creation, upheld daily Scrums, received feedback on UX prototype from 10+ Beko Global lead Engineers and Product Managers.

Teaching Assistant at NYU Abu Dhabi, Abu Dhabi, UAE

Computer Programming for Engineers (ENGR-UH 1000)

January 2023 - Current

- Supervised 34 students for 3 hours programming laboratory, graded quizzes, and held weekly office hours.
- Mentoring 7 student groups of 3 on VR and Embedded Systems class projects, scheduled workshops and meetings.

Leadership & Community Involvement

Committee Member at Engineering IDBEA Committee, Abu Dhabi, UAE

Undergraduate Organizational Member at NYU Abu Dhabi

November 2024 - Current

- Organizing, planning and facilitating dialogue around Belonging, Inclusion and Equity, Engineering Get Together's, and Women in Engineering panels for 200+ Engineering faculty, researchers, graduate and undergraduate students.

Facilitator and Intercultural Communication Coach at NYU Abu Dhabi,

May 2023 - Current

Head of Partnerships & Outreach at weSTEM High School Conference ,

Executive board for Women Empowered in STEM at NYUAD

July 2022-December 2023

- Reached out to and hosted high-impact speakers in STEM such as Hoda Al Khzaimi and Dr. Dania Zantout.
- Organized a high school conference for 80+ students and moderated the panel with 4 panelists in STEM.

Skills

CS: C/C++, CUDA, Python, PyTorch, Tensorflow, MATLAB, JS/HTML/CSS, MySQL, PHP, Verilog, Git, Node.js, React.js, Flutter, p5.js, Arduino, Microchip Studios, Verilog, ROS, Unity, tidal.cycles, Assembly/MIPS, Figma.