Nicole ElChaar

San Francisco, CA | <u>nicole-elchaar.github.io</u> | <u>linkedin.com/in/nicole-elchaar</u> | <u>njelchaar@gmail.com</u> | +1 (650) 241-0270

Professional Experience

Software Engineer & Technical Lead | Lazarus AI

Jan 2024 – Present

• Leading development of full-stack applications to connect customers with foundation models (Python)

Software Engineer II | Boeing

July 2023 - Jan 2024

Developed apps and displays for the Space Launch System of NASA's Moon to Mars mission (C++, Python)

Software Engineer Consultant | JCSI Corporate Staffing

Dec 2020 - June 2024

Overhauled client reporting, reducing weekly workload by ~2 hours, a 92% reduction (Python, T-SQL, R)

Software Engineer Intern | Meta (formerly Facebook)

May 2022 - Aug 2022

• Increased throughput for replica catch ups by 2–4 times in Meta's largest distributed database (C++)

Summer Software Development Analyst | Citi

June 2021 - Aug 2021

Summer Research Analyst | Evermay Wealth Management

May 2019 - Aug 2019

Education

Lehigh University | M.S. Computer Science

May 2023

- President's Scholar Program (full scholarship)
- Relevant Coursework: Computer Vision, Data Mining, Parallel Computing, Network Security
- Cumulative GPA: 4.00/4.00 | Highest Honors (Summa Cum Laude)

Lehigh University | B.S. IBE Finance | B.S. Computer Science | Data Science Minor May 2022

- Integrated Business & Engineering Honors Program | Tau Beta Pi (2020) | Upsilon Pi Epsilon (2021)
- 2022 CSE Systems Award recipient for excellence in parallel, concurrent, and distributed computing
- Cumulative GPA: 3.85/4.00 | Major GPA: 3.96/4.00 | Highest Honors (Summa Cum Laude)

Projects

ESG Investing Dashboard | <u>nicole-elchaar.github.io/esg-details</u>

May 2023

• Created interactive machine learning models to explore values-based investing (Pandas, Plotly, Streamlit)

Automated Lip Reading Hourglass Network | nicole-elchaar.github.io/alr-details

Nov 2022

Engineered a novel convolutional neural network for automated lip reading (PyTorch, OpenCV, PySpark)

Job-to-Job Flows on Market Performance | <u>nicole-elchaar.github.io/j2j-details</u>

Nov 2022

Investigated U.S. hiring releases as a leading market indicator (PySpark)

Leadership Experience

Head Teaching Assistant | Applied Engineering Computer Methods

Aug 2019 - May 2023

Supported 9 TAs and ~50 students per semester, teaching coding and wiring concepts (Python, RPi)

Chair | Professional Greek Coalition

May 2021 - May 2022

Led the board, held professional bootcamps, and coached ~70 members of 4 organizations one-on-one

Director of Event Planning & Founding Member | Lehigh Cheese Club

Apr 2019 – May 2022

Raised >\$20K for two grand tastings per semester, winning Lehigh's 2019–2020 Event of the Year award

Resident Advisor (Gryphon) | Lehigh Office of Residence Life

Aug 2019 - May 2021

Treasurer & Founding Member | UPE (Computer Science Honors)

Jan 2021 - May 2022

VP & Treasurer | AΩE (Professional Engineering Sorority)

May 2020 - Oct 2021

Technical Skills

- Proficient in C++, Python (OpenCV, NumPy, Pandas, PySpark, Scikit-Learn), and SQL (PostgreSQL, T-SQL)
- Competent in C, Java, JavaScript/TypeScript, R (Tidyverse), and Node.js