

Jaeho Cho

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✉ jaeho-cho

Education

The Cooper Union for the Advancement of Science and Art

2026

Bachelor of Engineering in Electrical Engineering, Bioengineering Minor

- Half Tuition Scholarship \textbar{} Myron Coe Scholarship \textbar{} Full Tuition Scholarship 2025-2026
- Courses: Machine Learning, Digital Signal Processing, Communication Theory, Hardware Design, Electronics, Data Structures & Algorithms, Computer Architecture, Linear Algebra, Ordinary & Partial Differential Equations, Probability

Experience

Data and AI Intern

Seoul, South Korea

PWC

May 2024 – Aug 2024

- Developed and optimized advanced time-series forecasting models using GluonTS, Chronos, and Darts to generate actionable price predictions for flagship petrochemical products, enabling data-driven decision-making.
- Refactored backend data pipelines, transitioning from MongoDB to ClickHouse and improving data flow efficiency.
- Built a web backend for business analysts, automating the aggregation of news and articles via APIs and integrating LLM-driven sentiment analysis with aforementioned forecasting models to enhance market insights.

Teacher Assistant

New York, NY

The Cooper Union

June 2023 – Aug 2023

- Taught 24 high school students the fundamentals of engineering design, circuit design, Arduino and Onshape CAD.
- Led workshops on Arduinos and circuit design, culminating in students building 3D printed 4-DoF robotic arms.

Extracurricular Activities

Founder/President

New York, NY

The Cooper Union

Sept 2024 – Present

- Established a support network for pre-medical/dental students, bridging gaps in guidance at the Cooper Union.
- Coordinated events including a blood drive that attracted 40 donors and resulted in 37 blood donations, as well as alumni networking sessions that facilitated connections between students, medical school attendees, and professionals.

Project Lead

New York, NY

The Cooper Union

Sept 2022 – Present

- Building open-source robotic arms for compliant human interaction, leveraging Mediapipe and OpenCV for real-time pose detection and integrating ROS2 for seamless control logic and interfacing with the OpenMANIPULATOR-X system.
- Simulated pose mimicking systems in Gazebo, using MoveIt2 & ros2_control for collision detection and motion planning.
- Designed & fabricated a custom PCB for an eTextile sensor, presented at the 2024 ASTM International Exo Games.

Research Assistant*Mount Sinai**New York, NY**Feb 2024 – Aug 2024*

- Spearheaded the analysis of Xsens IMU data using MATLAB to quantify mechanical exposure in industrial workers.
- Implemented an automated pipeline for data collection, labeling, and analysis, streamlining the research process.

Shadow*St. Joseph's Medical Center**Yonkers, NY**June 2023 – July 2023*

- Observed medical procedures, including endoscopies, laparoscopies, orthopedic surgeries, and open surgeries.
- Gained insight into the integration of advanced technology in surgeries, including the Da Vinci surgical system.

Skills

Programming: Python, MATLAB, C, C++, Verilog, VHDL, Git, Docker, SQL, Django, React**Software:** Virtuoso, LTspice, Altium, Vivado, ROS2, Gazebo, Blender, Onshape, Fusion360, Inventor**Certification:** NYS EMT, CPR