

ZARA NIP

Education 📞 617-513-2886 ✉️ zara2nip@gmail.com 💼 [linkedin.com/in/zaranip](https://www.linkedin.com/in/zaranip) 🐙 github.com/zaranip

University of Chicago

Expected Graduation: May 2026

Bachelor's of Science in Computer Science and Business Economics

Chicago, IL

GPA: 4.0 / 4.0. Financial Markets Program Scholar for quantitative finance acumen and coursework at UChicago Booth School of Business.

Experience

Incoming Quantitative Risk Manager Summer Analyst, Portfolio Management

Jul 2024 – Aug 2024

PIMCO

Newport Beach, CA

Incoming Summer Intensive Program (SIP) Scholar

Jun 2024

Girls Who Invest

Philadelphia, PA

- Accepted into highly selective, rigorous 4-week training and 7-week internship program focused on core finance and investment concepts and skills taught by leading business school professors and investment professionals.
- Coursework and case studies includes accounting, valuation, financial modeling, Bloomberg Terminal, asset allocation, presentation and business etiquette skills.

Portfolio Risk Intern

May 2023 – Sep 2023

Rockland Trust Bank

Norwood, MA

- Conducted scenario analysis using 4 industry-standard Federal Reserve models and publicly available oceanographic EPA data to help bank manage loan VAR (value at risk) totalling over \$200+ million value.
- Developed 3 models to demonstrate climate change risk using Alteryx, Python including linear and logistical regression.
- Presented statistics on loan collateral, impact to home and equity mortgage lines to 10+ member enterprise risk team.

Undergraduate Research Volunteer

May 2023 – Sep 2023

University of Massachusetts Amherst, Manning College of Information and Computer Science

Amherst, MA

- Performed pilot study on privacy and ethics of AI in K-12 classrooms with literature review, national survey, MTurk.
- Presented statistical data of 200 respondents and identified sentiments of data collection, policy regulation of AI.

Projects

Bollinger Bands Trading Project | *Python, Pandas, NumPy, Scikit Learn, Matplotlib*

Jan 2024 - Mar 2024

- Developed a Bitcoin (BTC) trading strategy using Bollinger Bands, culminating in a total strategy return of 585.98% against 361.54% benchmark for quantitative finance Maroon Capital club winter project.
- Outperformed market with strategy success rate of 71.43% with emphasis on Python-based data modelling for risk management and predictive accuracy.
- Leveraged quantitative analysis and financial modeling using simple moving average (SMA), relative strength index (RSI), moving average convergence / divergence indicators (MACD), and buy / sell signals.

RouteAble | *Python, Tensorflow, PyTorch, ErgoBlockchain, JavaScript, React Native*

Nov 2023

- Launched unique full-stack app to crowd-source images of inaccessible areas, including Blockchain stack in 36 hours.
- Implemented two ML models: object similarity and image detection models to identify unique images of stairs, ramps, guard rails. First and only app with embedded tag generation model for disabled users.
- Won "Most Impactful Award" at UChicago Winter Tech Showcase and "Best Use of Github Award" sponsored by Major League Hacking (MLH) during HackUMass for unique architecture.

Technical Skills

Languages: Python, Java, R, Swift, HTML, CSS, JavaScript, LaTeX, SQL, C

Developer Tools: GitHub, Stata, Tableau, Alteryx, VS Code, Eclipse, JetBrains PyCharm, Bash

Honors and Awards

Diversity Awards: SIG Trading Discovery Day, Morgan Stanley Early Insights, Jefferies Diversity Symposium, BNP Paribas Open Sophomore Summit, Citi Early Insights, JP Morgan Winning Women (2024), Barclays Diversity Day (2023).

AnitaB.org Grace Hopper Conference Scholarship: Selected for competitive, international scholarship. 2023.

Leadership / Extracurricular

Break Through Tech AI: Selective, national program for minorities in AI. Sponsored by Citadel. Mar 2024 - Present.

Junior Analyst, Paragon Global Investments: UChicago chapter for algorithmic trading. Oct 2023 - Present.

Member, Maroon Capital: Active participant in quantitative finance investment club. Sep 2023 - Present.

Member, Smart Women Securities: Ambassador of national women-led finance investment club. Sep 2023 - Present.

Interests

Swimming: UChicago Master's Swim Coach, Taiwan National U18 Championships; USA (NE, MA) swimmer 7 years.

Music: Trained in classical piano 14 years; jazz piano 5 years; 20+ band percussion 6 years; drum major 2 years.