

Romir Mohan

(786) 637-3059 | romir@u.northwestern.edu | [linkedin.com/in/romirmohan](https://www.linkedin.com/in/romirmohan) | github.com/romir-mohan

EDUCATION

Northwestern University

B.S. in Computer Science & Mathematics

Evanston, IL

Expected Jun. 2028

- **GPA:** 3.96/4.00 | **Major GPA:** 4.00/4.00 | **Dean's List** | **ACT:** 36/36
- **Relevant Courses:** Algorithms, Computer Systems, Data Structures, Functional Programming, Graph Theory, Intelligent Information Systems, Linear Algebra, Machine Learning, Programming in C/C++, Regression Analysis
- **Awards:** 3rd Place Northwestern Trading Competition, 3x AIME Qualifier with Distinction, Honorable Mention in Mathworks Math Modeling Challenge, Honorable Mention in Mathematics for Miami Herald Silver Knight Award

EXPERIENCE

Northwestern Financial Technologies

Quantitative Researcher

Oct. 2024 – Present

Evanston, IL

- Built a full trading strategy in Python and C++ for 10+ cryptocurrencies as part of desk simulation competition.
- Researched quantitative strategies and engineered 15+ features with unit tests to develop a L.A.S.S.O model.
- Led development of event projects including C++ low latency challenge, market making, and decision tree racing.

Mercor

Multimodal STEM Expert

Feb. 2025 – Apr. 2025

Remote

- Trained a machine learning model with engineered questions to provide 300,000+ users technical hiring assistance.
- Worked with OpenAI Feather platform to streamline and automate the data labeling process for 2M+ responses.
- Refined evaluation metrics to measure model accuracy and bias, improving response quality for STEM prompts.

Florida State Senate Campaign

Data Strategist

Jun. 2024 – Aug. 2024

Weston, FL

- Developed quantitative metrics in R using voter activity and trends to analyze 230,000+ voters and their habits.
- Created 60+ digital canvassing “walking maps” through VoteBuilder and React web app for 50+ campaign staff.

Mu Alpha Theta

Test Writer, Former State Secretary

Sep. 2020 – Present

Plantation, FL

- Composing tests focused on advanced algebra, calculus, probability, and statistics for 700+ students nationally.
- Led integration bees and expositions for 500+ students, earning \$2,000+ sponsorships with Jane Street, Desmos.

PROJECTS

Social and Professional Network Graph | *CSS, HTML, Firebase, Flask, JavaScript, Python, OpenAI, React*

- Designed a full-stack application of a social graph representing 150+ Kappa Theta Pi members and information.
- Trained an vectorized NLP function for parsing members' resumes and online activity to generate connections.

Cryptocurrency Trading Pipeline | *C++, CMake, Conan, Git, GitHub + Actions, pybind11, Python, UNIX*

- Built a complete automated trading pipeline sans execution for BTC on Coinbase, achieving 70% realized return.
- Prepared pipeline data ingest for 200,000+ API queries and implemented computation per tick for 5+ features.

High-Frequency Market Making Model | *C, C++, Gemini API, Python, Rust*

- Created a market-making strategy with “penny-in, penny-out” method, generating cumulative returns of 135%.
- Implemented a back testing framework to evaluate model performance over varying time horizons and parameters.

Housing Supply and Homeless Population Forecast | *Matplotlib, Numpy, Pandas, Python, R, RStudio, Vim*

- Built a prediction schema with Holt time-series, SSE optimization, and proprietary Dynamic Programming Model.
- Presented changes in housing pricing and spending for homeless population to reduce by 82% in ten years time.

TECHNICAL SKILLS

Languages: Bash, C, C++, CSS, HTML, Java, JavaScript, \LaTeX , Python, SQL, R, Racket, Rust, TypeScript

Technologies: APIs, Cloud Infrastructure, Flask, Make, Node.js, Numpy, OpenAI Platform, Pandas, React, UNIX

Developer Tools: AWS, Firebase, GDB, Git, GitHub + Actions, \LaTeX , Microsoft Tools, SSH, Valgrind, Vim, VS Code