

# Zachary Mabie

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## EDUCATION

**University of Minnesota - Twin Cities**

Graduating: Dec 2024

*B.S. Mathematics, minor in Computer Science*

## EXPERIENCE

**Quantitative Trading Intern**

Oct 2023 - Present

*Walleye Capital, LLC*

*Minneapolis, Minnesota*

- Trader assistant on an interest rates options market making / volatility trading desk
- Performed analytics to assist traders and researchers in the development of proprietary option pricing models and volatility curve fitters.
- Completed various projects using Java, Groovy, and Python to assist traders with option pricing, risk management, trade reconciliation, and data visualization to help traders make trading decisions.
- Shadowed traders to gain a deeper understanding of their trading decisions and studied flows to stay up to date with the rates market.

**Software Engineer Intern**

May 2023 – Oct 2023

*The Bernard Group, Inc.*

*Minneapolis, Minnesota*

- Full Stack Development using Java, Python, AWS, Cloud Computing, Serverless Computing

**IMC Launchpad Trading Fellow**

May 2023

*IMC Trading*

*Chicago, Illinois*

- 1 of 30 students invited to IMC's distinguished early-insights trading program

## EXTRACURRICULAR LEADERSHIP

**President**

Aug 2023 – Present

*MN Quants, University of Minnesota*

- Managing and facilitating the progress of quantitative finance projects and research

**Vice President, Co-Founder**

March 2023 – Present

*Machine Learning @ UMN, University of Minnesota*

- Hosting machine learning workshops, Kaggle competitions, and advising machine learning projects

## PROJECTS, AWARDS, & CERTIFICATIONS

**Akunacademy Options 201 Course** | *Akuna Capital*

Nov 2023

- Completed course on options theory, volatility curves and skew, Greeks.

**Winner - Lionhack 2023** | *Decentralized Finance, Scaffold ETH, Solidity*

April 2023

- Built a decentralized marketplace that allows DAOs to issue and manage on-chain bonds for investors to purchase.

**IMC Prosperity Trading Challenge** | *Python, Matplotlib*

Mar 2023

- Placed 92/8000+ participants
- Backtested and developed algorithmic trading strategies such as market making, pairs trading, ETF arbitrage

## SKILLS

**Languages:** Python, Java, C, Groovy, JavaScript, HTML/CSS, jQuery

**Frameworks/Libraries/Tools:** AWS, React, Node.js, NumPy/Pandas, Matplotlib, Jupyter Notebook, Git

**Leadership:** Former Lieutenant in the Singapore Army (National Service)

**Personal Interests:** Sports betting, prediction markets trading, martial arts