

Meredith Naylor

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SUMMARY

I am a driven computer engineering student at the University of Illinois Urbana-Champaign. I plan to pursue my master's in engineering focusing in artificial intelligence post-graduation. I am very passionate about programming trading algorithms.

EDUCATION

Bachelor of Science in Computer Engineering

University of Illinois Urbana-Champaign, Grainger College of Engineering
Dean's List (Fall 2021, Spring 2022, Fall 2022, Spring 2024)

May 2025

GPA 3.95/4.00

Relevant Coursework: Computer Systems Engineering, Probability with Engineering Applications, Data Structures, Discrete Structures, Digital Signal Processing, Digital Systems Laboratory

SKILLS

PROGRAMMING LANGUAGES: C/C++, Python, Java, LC3, Swift, System Verilog, SQL, x86/Assembly

TECHNICAL SKILLS: FPGA, Visual Studio, VS Code, MYSQL Workbench, Linux, Google Docs, JIRA, Confluence, Lucid Chart, BitBucket/git, Microsoft Office

RELEVANT WORK EXPERIENCE

LIQUID MERCURY Chicago, Illinois

July 2022 - Present

Leader in professional crypto trading for both buy-side and institutional sell-side legacy trading professionals with best-in-class trading tools and workforce automation.

SOFTWARE ENGINEER - LIQUID MERCURY Chicago, Illinois

May 2024 - Present

- Designed and developed a C++ system to automate synchronization of database schema and content across multiple environments.
- Created an automated documentation system using *Doxygen* and *JSDoc*.
- Improved efficiency with batch scripts and allowing for more automated systems and a decreased manual workload.

QA AND PROJECT TESTING LEAD - LIQUID MERCURY Chicago, Illinois

June 2023 - May 2024

Developed automated testing software for a web based real time crypto currency trading platform. This platform was implemented as a SPA (single page application), with a fully dynamic DOM (document object model).

- Pitched, designed, and developed automated testing software.
- Deployed and configured software to run on a *Linux AWS Cloud* server.
- Implemented a report and testing notification system through both email and google sheets.
- Trained additional interns to be able to assist in further code development and testing projects.
- Demonstrated and presented to senior management on development projects.
- Created training guides to easily modify test cases with *JSON* configuration files.

INTERN - LIQUID MERCURY Chicago, Illinois

July 2022 - June 2023

- Performed QA testing of Liquid Mercury's custom applications.
- Revised and updated workflow diagrams.

ADDITIONAL WORK EXPERIENCE

COMPUTER SYSTEMS AND PROGRAMING GRADER

January 2024 - May 2024

UNIVERSITY OF ILLINOIS URBANA-CHAMPAGIN Champaign, Illinois

- Graded students coding projects based on commenting, style and functionality.

COMPUTER SYSTEMS AND PROGRAMING COURSE ASSISTANT

August 2023 - December 2023

UNIVERSITY OF ILLINOIS URBANA-CHAMPAGIN Champaign, Illinois

- Collaborated with teaching assistants to instruct lab sections of ECE 220.
- Assisted students with debugging code and conceptual understanding of course material.

PROJECTS

AUTOMATED TRADING STRATEGIES FOR PERSONAL USE

Summer 2024 - Present

- Currently developing a pairs trading algorithm that determines statistically stable pairs based on historical data and mean reversion. Recognizes when the relationship is out of balance and performs a pairs trade.

CUSTOM OPERATING SYSTEM (jOS) [Demo Link](#)

Spring 2024

Design Competition Champions

- Led a team of four in the development a Linux-based OS with features including interrupts, system call handling, exceptions, scheduling, multiple terminal switching, memory management and device support.

- The breadth of additional functionality, including a writable file system, mouse driver, GUI, and Chip8 modified emulator, allowed us to win the end of semester design competition.

COURSEHELPER APPLICATION (INDEPENDENT STUDY)

Fall 2024

- Proposed the project idea to a professor at UIUC for approval.
- Developed an iOS app to assist students with the course registration process using C++, Python, and Swift.
- Implemented the front-end framework and the C++ bridging code of the algorithms to the front end.

LEADERSHIP & INVOLVEMENT

Member of HKN (Eta Kappa Nu) Honors Society

Spring 2023 – Present

- Presented review sessions for Computer System and Programing midterms
- Peer tutored for Introduction to Electronics and Computer Systems and Programing

Member Tau Beta Pi Engineering Honors Society

Fall 2022 – Present

- Recognition for academic achievement while engaging in philanthropic, professional, and networking events.

Member IEEE (Institute of Electrical and Electronics Engineers)

Spring 2023 – Present

Member of Society of Women in Engineering

Fall 2021 – Present

Member of Delta Zeta Sorority

Fall 2021 – Present

Intermural Sports

Fall 2021 – Present

- Basketball, Soccer, Flag Football, Cornhole, Pickleball, Tennis

SCHOLARSHIPS & AWARDS

Sargent and Lundy Engineering Scholarship

2024

Engineering Visionary Scholarship

2024

Boeing Women in Engineering Award

2023

Hayward TBPI Award

2023

ECE Ghuman Scholarship

2023

IL Engineering Outstanding Scholarship

2023