MICHAEL FLYNN

B.S COMPUTER SCIENCE

PROFESSIONAL OVERVIEW

Developer with strong Python and Java skills and experience in full stack frameworks like PyQT5, Java Spring, React and SQL. Comfortable working in agile teams and utilizing CI/CD best practices (Git and Docker). Experienced in debugging, object-oriented design, and full stack systems from design to implementation. Eager to contribute to a fast-moving development team and gain practical SWE experience.

WORK EXPERIENCE

Research Assistant at University of Rochester

Rochester, NY | June 2023 – December 2024

- Wrote Python scripts for automating experiment workflows from algorithm execution to data collection
- Explored mathematical concepts (sub-modularity, gradient approximation) for efficient algorithm implementation
- Utilized an SSH and Git workflow within a Linux environment to maintain and run code remotely
- Designed PyTorch pipelines for training deep learning models and pre-processing image/tabular datasets

Engineer Intern at Novanta

Rochester, NY | June 2022 – September 2022

- Contributed to and debugged a GUI application using PyQt5 and OpenCV
- Utilized Agile development methodologies in a multi-developer environment
- Integrated low level motor-control logic into a GUI application
- Utilized Git to manage feature branches and successfully merge pull requests

SOFTWARE PROJECTS

Punch Lite Time Clock

Open-Source Project | https://github.com/mflynn840/PunchLite

- Full stack Java Spring and React time clock application
- Implemented login screen using JWT tokens
- Wrote JavaScript, HTML and CSS for styling the UI
- Connected frontend to backend by exposing REST APIs
- Correctly utilize the repository, service and controller layers for clean, maintainable code

Cash Ninja Stock Market Simulator

Open-Source Project | https://github.com/mflynn840/CashNinja

- Designed an SQL database schema and wrapper classes to support real time price updates and logging of user transactions
- Implemented PyQt views with signals to create a GUI and connect it to the database

EDUCATION

University of Rochester
Rochester, NY

B.S. Computer Science
GPA: 3.73

Graduated May 2025

RELEVENT COURSES

- Algorithms
- Independent Study
- Computer Security
- Compilers
- Deep Learning
- Machine Learning
- Calculus/Linear Algebra
- Formal Models

LANGUAGES

- Python (5 Years)
- Java (4 years)
- C (3 Years)
- SQL (2 Years)
- HTML/CSS (2 years)
- JavaScript (1 year)

FRAMEWORKS

- Git (4 years)
- PyQT5 (3 years)
- PyTorch (3 years)
- Agile (2 years)
- Java Spring (1 year)
- React (1 year)
- Docker (1 year)