

## EXPERIENCE

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**Snowflake** — *Software Engineer Intern* 05/2023 - 08/2023

- Led project with the Developer Productivity team to create analytics tools for build systems and code health (Go)
- Created a multithreaded CLI tool from scratch and onboarded 50 users with telemetry data collection (SQL)

**IMC Trading** — *Quantitative Trading Intern* 06/2022 - 08/2022

- Designed an algorithm for an autonomous trading bot that beat firm expectations by 5% in simulations (Python)
- Changed model to predict if index options are bought or sold to improve accuracy by 20% or up to \$100k per month

**AbbVie** — *Software Engineer Intern* 01/2022 - 05/2022

- Automated backend database operations for chatbot analytics, saving 10 hours of developer time per month (SQL)
- Hooked up backend to dashboard used by over 200 internal customers to monitor chatbot performance (Power BI)

**IBM** — *Artificial Intelligence Research Intern* 08/2021 - 12/2021

- Conducted NLP research at IBM's Center for Cognitive Computing Systems Research on academic paper clustering
- Created a web user interface for interactive model output comparisons using Streamlit dashboards (Python)

**Twitter** — *Software Engineer Intern* 05/2021 - 08/2021

- Architected end-to-end, production NLP system which categorized 500 million tweets daily in 3 languages (Python)
- Implemented a crowdsourced prediction feedback system and managed a \$10k budget for participants (Scala)

**Motorola Solutions** — *Software Engineer Intern* 01/2021 - 05/2021

- Constructed web dashboard for \$5M revenue cybersecurity analysis platform with dozens of corporate clients (Python)
- Coordinated data pipelines between two companies under acquisition to streamline data for security platforms

**Illinois Risk Lab** — *Artificial Intelligence Research Intern* 08/2020 - 12/2020

- Constructed predictive statistical models from scratch for AI-Powered financial lifecycle planning service (Python)
- Facilitated full-fledged data science pipeline: dataset selection to ensemble modeling for eventual deployment

**Northwestern University** — *Data Science Research Intern* 05/2019 - 01/2020

- Authored social network paper on online team formation that received thousands of downloads (R, SQL)
- Presented research on online team social networks at conferences in Lisbon, Portugal, and Urbana-Champaign, IL

**Fermilab National Accelerator Laboratory** — *Software Engineer Research Intern* 08/2018 - 04/2019

- Refreshed antiquated histogram binning program with caching for particle physics analysis, doubling efficiency (C++)
- Authored 2 publications on Monte Carlo simulations and presented work to physics research groups at 2 conferences

## EDUCATION

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**University of Illinois at Urbana-Champaign** — *M.S. in Computer Science* 12/2023

- Working online, part-time towards a master's degree (able to begin full-time work while completing the degree)

**University of Illinois at Urbana-Champaign** — *B.S. in Computer Science and Statistics* 05/2023

- James Scholar Honors Student; Dean's List (top 3%); 3.95 GPA
- Mentored undergrads as code reviewer and teaching assistant for Software Design Studio class (Java, C++)

## VOLUNTEERING

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**Hack4Impact** — *Software Engineering Lead* 2019 - 2022

- Led a team of 8 young software engineers to develop software for partner nonprofits, completely free of charge
- Guided members through ReactJS frontend with ExpressJS backend, as well as setting up MongoDB databases

## LANGUAGES & SKILLS

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Python | Go | C++ | C# | Java | R | SQL | JavaScript | Shell/Bash | Google Cloud | MongoDB | Pandas | ReactJS | PyTorch