

Nathan Johnson

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Education

Loyola University of Chicago

B.S. Computer Science

GPA: 3.94

Relevant Coursework: Data structures and Algorithms, Discrete Math, Calculus I & II, Linear Algebra, Computer Systems, Programming languages.

Future Coursework: Operating Systems, Object-Oriented Design, Database Programming, NLP, Machine Learning

Chicago, IL

Expected Graduation: May 2026

Experience

Argonne National Laboratory

Computational Research Aide / Sophomore

Lemont, IL

May 2024 – August 2024

- Contributed to ARCHES project under the CPS division, leveraging SYCL for GPU offloading and OpenMP to optimize workload distribution—reducing compute times and improving overall operational efficiency.
- Utilized MAQAO for performance analysis, providing data-driven insights on code bottlenecks and suggesting enhancements—demonstrating strong analytical and problem-solving skills.

Computational Research Aide

May 2023 – August 2023

- Contributed to HPC workflow automation using Python and mpi4py, increasing data throughput for simulation tasks.
- Implemented fundamental data pipelines for HPC job metrics, visualizing operational stats in near real-time and expanding HPC cluster diagnostics.

TrueLayer

Business Development Intern

London, UK

January 2025 – Present

- Gained insight into fintech integrations and open banking protocols, leveraging light scripting in Python to analyze consumer data and generate strategic partner leads.
- Strengthened cross-functional collaboration skills, vital when coordinating with engineering teams to produce technical demos for prospective clients.

Loyola University of Chicago

Loyola AI Club President

Chicago, IL

August 2023 – December 2024

- Led a team project to create an AI-driven recommendation system (movies) using Pandas, NumPy, and Scikit-learn, integrating Docker for consistent deployment across club members' environments.
- Organized speaker events focused on AI/ML and cloud computing, deepening the club's understanding of containerization and microservice deployments.

Technical Skills

- **Languages:** Python, C++, Java, Go (Golang), Ruby
- **Frameworks & Tools:** Docker, REST APIs, Git
- **Databases:** MySQL
- **Cloud & Infrastructure:** HPC, microservices, container orchestration, familiarity with Kafka and Flink for data streaming (learning)