Nathan Johnson

Chicago, Illinois | njohnson14@luc.edu | 331-229-1644 | GitHub | LinkedIn

Education

Loyola University of Chicago   Chicago, IL
B.S. Computer Science   Expected Graduation: May 2026
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

Technical Skills

- **Programming & Data Science:** Python (data manipulation, machine learning), C++, Java
- **Machine Learning Frameworks:** Scikit-learn, Pandas, NumPy (via AI Club / personal projects)
- **Data Handling & Analysis:** HPC environment with mpi4py, cProfile, data workflows
- **Project Management Tools:** Basic familiarity with Agile, Git for version control, and Slack/Trello for collaboration
- **Other Tools:** OpenMP, SYCL, PyBind11, MAQAO (for HPC optimization)

Experience

Argonne National Laboratory   Lemont, IL
Computational Research Aide | Sophomore   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

- Built Python-based HPC workflows, integrating C/C++ libraries via ctypes and pybind11 to streamline compute-intensive tasks.
- Applied mpi4py for parallelization, improving data throughput and efficiency—developing familiarity with complex data sets and distributed computing concepts.

TrueLayer   London, UK
Business Development Intern   January 2025 – Present
- Conducted data-driven research on prospective partners, applying strong analysis to evaluate strategic opportunities in a fast-paced FinTech environment.
- Collaborated with cross-functional teams—strengthening interpersonal skills crucial for project coordination and reporting progress to stakeholders.

Loyola University of Chicago   Chicago, IL
Loyola AI Club President   August 2023 – December 2024
- Led the design and development of a machine learning project recommending similar movies, using Pandas, NumPy, and Scikit-learn for data cleaning, modeling, and evaluation.

- Organized weekly club meetings, project demos, and guest speaker engagements—enhancing leadership, communication, and stakeholder management skills.