**Nathan Johnson**

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**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

**Experience**

**Argonne National Laboratory**  Lemont, IL*Computational Research Aide | Sophomore*  May 2024 – August 2024

* CContributed 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.

**Skills**

* **Programming/Cloud:** Python, C++, Java; fundamental knowledge of distributed systems and HPC
* **Systems & Networking:** Linux/Unix environments, HPC cluster deployment, OpenMP, mpi4py
* **Databases & Storage:** Familiarity with data structures, relational and NoSQL concepts.
* **Other Tools:** Git, cProfile, PyBind11, Pandas, NumPy, Scikit-learn