**Nathan Johnson**

Chicago, Illinois | [njohnson14@luc.edu](mailto:njohnson14@luc.edu) | 331-229-1644 | [GitHub](https://github.com/nathanjohnsongithub) | [LinkedIn](https://www.linkedin.com/in/nathan-johnson-compsci/)

**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, ML

**Experience**

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

* Contributed to performance-critical HPC applications (ARCHES project) by offloading GPU computations with SYCL.
* Optimized parallel workloads using OpenMP, improving code scalability and efficiency across large clusters.
* Conducted profiling (MAQAO) to identify bottlenecks and successfully implemented multi-threaded optimizations.

*Computational Research Aide*  May 2023 – August 2023

* Developed Python-based HPC workflows and integrated C/C++ libraries for performance-critical modules.
* Employed cProfile and mpi4py for benchmarking and parallel computing, enhancing performance across distributed systems.

**TrueLayer**  London,UK  *Business Development Intern* January 2025 – Present

* Gained hands-on experience at a leading FinTech provider of Pay by Bank, Open Banking, and A2A solutions.
* Analyzed data and identified strategic commercial opportunities to grow partnerships in a fast-paced startup environment.
* Collaborated cross-functionally with technical and non-technical teams, reinforcing communication and problem-solving skills.

**Loyola University of Chicago** Chicago,IL  *Loyola AI Club President* August 2023 – December 2024

* Led a machine-learning movie-recommendation project utilizing Pandas, NumPy, and Scikit-learn.
* Organized and presented weekly meetings, competitions, and guest speaker events to expand club engagement.
* Demonstrated leadership and communication skills while growing the club’s active membership base.

**Skills**

* **Programming Languages:** Python, C++, Java, Scala, Ruby, Go
* **Parallel & HPC:** OpenMP, SYCL, mpi4py, MAQAO
* **Tools & Libraries:** Pandas, NumPy, Scikit-learn, pybind11
* **Other Skills:** Cross-language performance optimization, Data Analysis, Leadership & Collaboration