

# Nathan Johnson

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## Education

### Loyola University of Chicago

*B.S. Computer Science*

Chicago, Illinois

Expected Graduation: May 2026

**GPA:** 3.94

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

## Experience

### TrueLayer

*Business Development Intern*

London, UK

January 2025 – Present

- Acquired hands-on experience in the dynamic, fast-paced FinTech industry, working in a global business environment.
- Conducted data analysis within the Commercial division to identify and evaluate potential strategic partnership opportunities.

### Argonne National Laboratory

*Computational Research Aide / Sophomore*

Lemont, IL

May 2024 – August 2024

- Returned under Anouar Benali in the CPS division, contributing to the ARCHES (Argonne Configuration Interaction for High-Performance Exascale Systems) code.
- Focused on GPU offloading using SYCL for the Aurora supercomputer and performed code profiling with MAQAO.
- Applied optimizations using OpenMP threading and engaged in high-performance computing tasks.

*Computational Research Aide*

May 2023 – August 2023

- Assisted in the CPS division with Python-based HPC (High-Performance Computing) projects.
- Utilized cProfile for benchmarking, mpi4py for parallel computing, and worked on binding C/C++ with Python using ctypes and pybind11.

### Loyola University of Chicago

*Loyola AI Club President*

Chicago, IL

August 2023 – Present

- Upon becoming President for the club, I quickly redesigned the club to include more projects, workshops, and collaborations.
- Facilitated a project that would recommend similar movies based on user movie data. Used tools such as Pandas, NumPy, Scikit-learn, Pickle.
- Organized weekly meetings, competitions, and guest speaker events to engage members and expand the club's presence. Taking weekly attendance from around 5 to 25.

## Skills

**Languages/Tools:** Python, Java, C++, Rust, Ruby, Scala, SYCL, OpenMP, MAQAO, Linux, mpi4py, ctypes