

Nathan Johnson

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Education

Loyola University of Chicago

B.S. Computer Science

GPA: 3.94

Chicago, IL

Expected Graduation: May 2026

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

Computational Research Aide / Sophomore

Lemont, IL

May 2024 – August 2024

- Collaborated on the ARCHES project, applying SYCL for GPU offloading and OpenMP for parallelization, gaining insight into designing scalable, performance-optimized solutions.
- Conducted bottleneck analysis using MAQAO, integrating system-level diagnostics with HPC application design—a skillset transferable to complex cloud environments.
- Conducted HPC code reviews, effectively communicating technical recommendations to colleagues

Computational Research Aide

May 2023 – August 2023

- Developed Python-based HPC workflows, integrating C/C++ libraries for performance-critical tasks.
- Gained exposure to parallel programming (mpi4py) and HPC job orchestration, emphasizing an ability to adapt to new technologies and optimize solutions.

TrueLayer

Business Development Intern

London, UK

January 2025 – Present

- Performed market analysis and assisted in identifying new strategic partnerships, showcasing adaptability and customer-centric thinking.
- Coordinated with cross-functional teams, reflecting the collaborative approach crucial to solutions architecture.

Loyola University of Chicago

Loyola AI Club President

Chicago, IL

August 2023 – December 2024

- Led a team project building an AI-driven movie recommendation engine using Pandas, NumPy, and Scikit-learn, demonstrating end-to-end solution design and presentation skills.
- Organized workshops and speaker events, honing communication skills essential for customer-facing solution architecture roles.
- Led weekly AI Club meetings, presenting ML concepts and guiding interactive sessions—developing presentation delivery 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