

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

- 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.
- Collaborated with a cross-functional team to build and test data-driven software tools.

Computational Research Aide

May 2023 – August 2023

- Automated data processing scripts in Python, reducing manual overhead by ~30%.
- Optimized code for higher performance, applying concurrency concepts (OpenMP, mpi4py) to large-scale data tasks.
- Documented processes and versioned code via Git, supporting a collaborative research environment.

TrueLayer

Business Development Intern

London, UK

January 2025 – Present

- Strengthened data analytics skills using Python and basic SQL queries, generating insights for strategic partnership explorations.
- Coordinated with engineering teams to align client-facing requirements with product enhancements, developing strong teamwork and communication skills.

Loyola University of Chicago

Loyola AI Club President

Chicago, IL

August 2023 – December 2024

- Led interactive workshops on front-end development with React and data visualization best practices.
- Organized hands-on sessions introducing Node.js and Express for club project back-end services.
- Mentored club members in Agile workflows, code reviews, and product planning, maintaining collaborative coding standards.

Skills

- **Front-End:** HTML, CSS, JavaScript, React; Basic understanding of Angular, and Vue.js
- **Back-End:** Node.js (Express), Python (Flask, Django), Ruby
- **Databases:** MySQL, SQLite (SQL)
- **Additional Tools & Practices:** Git (version control), Docker (containerization basics), AWS (introductory), Agile (Scrum), CI/CD fundamentals
- **Soft Skills:** Collaborative problem-solving, Communication, Adaptability, Code Review & Debugging