

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, ML

Experience

Argonne National Laboratory

Computational Research Aide / Sophomore

Lemont, IL

May 2024 – August 2024

- Collaborated on distributed computing solutions, using Python for data ingestion and automating HPC workflows in Agile sprints.
- Leveraged HPC concurrency tools (OpenMP, mpi4py) to optimize pipeline performance; gained valuable insights into system scalability and distributed data handling.
- Employed Git for version control, conducting code reviews and implementing branching strategies to streamline development.

Computational Research Aide

May 2023 – August 2023

- Contributed to HPC workflow automation using Python and mpi4py, increasing data throughput for simulation tasks.
- Implemented fundamental data pipelines for HPC job metrics, visualizing operational stats in near real-time and expanding HPC cluster diagnostics.

TrueLayer

Business Development Intern

London, UK

January 2025 – Present

- Conducted data analyses with Python to identify potential strategic partnerships in a FinTech environment; gleaned insights from structured and unstructured data sources.
- Strengthened cross-team collaboration skills—coordinating with engineering for product demos and synergy on new feature rollouts.

Loyola University of Chicago

Loyola AI Club President

Chicago, IL

August 2023 – December 2024

- Led a cross-functional team of ~25 members, utilizing Agile ceremonies (sprint planning, retros) to manage club projects and tasks.
- Designed a web-based AI demonstration platform using React on the front end and Node.js for backend APIs; integrated a MySQL database for user data and analytics.
- Taught members about Git workflows (feature branches, pull requests) for collaborative development, improving code quality and version tracking.
- Mentored peers in SQL fundamentals for structured data handling, fostering a collaborative environment of shared learning and rapid iteration.

Skills

- **Languages:** Python, JavaScript, Ruby, Go, SQL
- **Web Technologies:** React (front-end), Node.js (back-end), HTML/CSS, MySQL
- **Development Tools:** Git, Agile methodology, CI/CD pipelines

- **Additional:** Docker, Kubernetes (basic exposure), HPC concurrency concepts, cProfile, PyBind11