**Nathan Johnson**

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**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

* 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**  London,UK  *Business Development Intern* 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** Chicago,IL  *Loyola AI Club President* 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