Nathan Johnson

Chicago, Illinois | njohnson14@luc.edu | 331-229-1644 | GitHub | LinkedIn

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

- Analyzed large-scale datasets on HPC clusters, leveraging Python (Pandas) for data wrangling and exploratory analysis, generating insights to guide performance optimizations. 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

- Created automated scripts in Python to gather HPC job metrics, performing data cleaning, transformation, and analysis to support HPC resource allocation decisions.
- Documented findings and best practices for HPC data workflows, distributing knowledge through team wikis and informal presentations.

TrueLayer London, UK
Business Development Intern January 2025 – Present

- Analyzed partner data using Python for insight generation, presenting findings to cross-functional teams.
- Collaborated with engineering to align business requirements with technical solutions, strengthening communication and problem-solving skills.

Loyola University of Chicago Chicago, IL
Loyola AI Club President August 2023 – December 2024

- Directed club projects using Agile methodology (scrum sprints, retrospectives), ensuring timely completion of data-oriented tasks.
- Led a data analytics initiative with R and Python, teaching members about SQL basics for structured data retrieval and storage.
- Developed interactive dashboards in Tableau to showcase AI-driven insights, encouraging hands-on exposure to data visualization tools.
- Oversaw Git-based collaboration for code versioning and contributed to increased member engagement (grew from ~5 to ~25 weekly participants).

Skills

- **Data & Analytics:** SQL (MySQL), Python (Pandas, NumPy), R
- **Data Science Tools:** scikit-learn, Azure Data Factory, Databricks (basic familiarity)
- **Data Visualization:** Tableau
- **Scripting/Development:** Git, Agile methodologies,
- **Cloud/Other:** HPC environments, Docker, concurrency concepts (OpenMP, mpi4py)