

# Nathan Johnson

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## Education

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### Loyola University of Chicago

*Bachelor of Science in Computer Science*

**GPA:** 3.92

**Relevant Coursework:** Data Structures and Algorithms, Discrete Math, Calculus I & II, Linear Algebra, Computer Systems, Programming Languages, Operating Systems, Object-Oriented Design, Machine Learning, Software Engineering

**Future Coursework:** Database Programming, NLP

Chicago, IL

Expected May 2026

## Experience

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### Enova International

*Software Engineering Intern*

Chicago, IL

June 2025 – August 2025

- Completed a Software Engineering internship in the Small and Medium Business Engineering Department, contributing to the modernization of legacy systems through cloud-native design.
- Migrated core business functionalities into a scalable microservice architecture leveraging Go, AWS Lambda, Salesforce Apex, and Terraform.
- Collaborated with cross-functional teams to deliver production-ready, fault-tolerant solutions that streamlined operations and supported long-term platform growth.

### Argonne National Laboratory

*Computational Research Aide — Sophomore*

Lemont, IL

May 2024 – August 2024

- Contributed to performance-critical HPC applications (ARCHES project) by offloading GPU computations with SYCL.
- Optimized parallel workloads using OpenMP, improving scalability and efficiency across large clusters.
- Conducted profiling (MAQAO) to identify bottlenecks and implemented multi-threaded optimizations.

*Computational Research Aide*

May 2023 – August 2023

- Developed Python-based HPC workflows and integrated C/C++ libraries for performance-critical modules.
- Employed cProfile and mpi4py for benchmarking and parallel computing, enhancing performance across distributed systems.

### TrueLayer

*Business Development Intern*

London, UK

January 2025 – Present

- Gained hands-on experience at a leading FinTech provider of Pay by Bank, Open Banking, and A2A solutions.
- Analyzed data and identified strategic commercial opportunities to grow partnerships in a fast-paced environment.
- Collaborated cross-functionally with technical and non-technical teams, reinforcing communication and problem-solving skills.

### Loyola University of Chicago

*Loyola AI Club President*

Chicago, IL

August 2023 – December 2024

- Led a machine-learning movie recommendation project utilizing Pandas, NumPy, and Scikit-learn.
- Organized and presented weekly meetings, competitions, and guest speaker events to expand club engagement.
- Demonstrated leadership and communication skills while growing the club's active membership base.

## Skills

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**Programming:** Python, Go, C++, Java, Scala, Ruby, Apex

**Frameworks & Technologies:** AWS, Terraform, Salesforce, Linux, Git, REST APIs

**Data & Machine Learning:** Pandas, NumPy, Scikit-learn, Data Analysis

**High-Performance Computing:** OpenMP, SYCL, mpi4py, Parallel Optimization

**Professional Skills:** Software Design, Systems Thinking, Communication, Leadership, Collaboration