

Nathan Johnson

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Education

Loyola University of Chicago

Bachelor of Science in Computer Science

Chicago, IL

Expected May 2026

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

Experience

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

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