

Nikolas Thornton

Atlanta, GA | nicktcontact@gmail.com | nthorn.com | [nTh0rn](https://github.com/nTh0rn) | [in nikolas-thornton](https://www.linkedin.com/in/nikolas-thornton)

EDUCATION

Georgia Institute of Technology, Atlanta, GA Jan 2025 – Dec 2027
Bachelor of Science in Computer Science (in-progress)
GPA: 3.7/4.0

Kennesaw State University, Kennesaw, GA Aug 2024 – Dec 2024
Bachelor of Science in Computer Science (transferred-progress)
GPA: 4.0/4.0

Clayton State University, Morrow, GA Aug 2022 – May 2024
Bachelor of Science in Computer Science (transferred-progress)
GPA: 4.0/4.0

Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Calculus 3

TECHNICAL SKILLS

Languages: Java, Python, C#, C++, C, Rust, Windows' Batch, HTML, CSS, Tailwind
Technologies: FastAPI, AWS, SQLAlchemy, GraphQL, Graphene/Strawberry, Astro

WORK EXPERIENCE

Cloud, AI, and Enablement Intern, **Ansys/Synopsis**, Atlanta, GA May 2025 – Dec 2025

- Developed/maintained an internal tool and API for the purpose of tracking BLOB/ML-experiment provenance using Python, SQLAlchemy, and GraphQL.
- Developed a dynamic testing framework for compatibility with any combination of recursive and interreferential SQLAlchemy/Strawberry objects as well as conversion methods for complex types.

Computer Science Tutor, **Kennesaw State University**, Kennesaw, GA Aug 2024 – Dec 2024

- Tutored undergraduate and postgraduate students in Java, C#, and Python.
- Awarded as the 3rd most-booked tutor for Fall 2024 and Employee of the Month for August, 2024.

Tutor / Front Desk Assistant, **Clayton State University**, Morrow, GA Nov 2022 – May 2024

- Tutored undergraduate students OOP in Java/Python and mathematics up to Calculus 3.
- Handled various administrative tasks and oversaw the front desk.

PROGRAMMING PROJECTS | See more at nthorn.com/projects

Chess Engine (C++) | [GitHub](https://github.com/nTh0rn/chess-engine) Dec 2024

- A built-from-scratch chess bot / engine rated at ~1600 Elo, playable at lichess.org/Terconari.
- NegaMax with alpha/beta pruning, iterative deepening, time-control dependent logic, and more.

Dynamic Sudoku Solver (Rust) | [GitHub](https://github.com/nTh0rn/sudoku-solver) | [Article](https://nthorn.com/articles/sudoku-solver) Sep 2024

- A dynamic sudoku solver capable of solving puzzles of any size or complexity.
- Stack-based backtracking, hidden single candidate elimination, and more.

ACTIVITIES

Math Club Vice President, **Clayton State University** Aug 2023 – May 2024

- Regularly led meetings, gave presentations, and organized presentations from speakers.
- Organized engaging events to promote an appreciation of math amongst students.

Computational Physics Research, **Clayton State University** Aug 2023 – Aug 2024

- Developed a low-cost photon-based hardware random number generator.
- Programmed all physical hardware and developed custom analysis algorithms in Python.
- Won 1st at Clayton State's 2024 CIMS Symposium. Rated 15/18 at the APS 2024 March Meeting.