

# Otto Cline

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## EDUCATION

### Northeastern University – Expected Graduation 2028

#### Khoury College of Computer Sciences

*Candidate for Bachelor of Science in Computer Science and Business Administration*

September 2024 – Present

*Boston, MA*

GPA: 3.81

**Relevant Coursework:** Algorithms and Data Structures (Java), Discrete Structures, Fundamentals of Computer Science 1 and 2, Managerial Accounting 1 and 2, Object Oriented Design (Java)

## TECHNICAL SKILLS

**Languages:** Java, Python, PostgreSQL, MySQL, TypeScript, React, Flask, HTML/CSS

**Developer Tools:** Docker, Supabase, Neon, Node.js, Git, Github, IntelliJ, VSCode, Eclipse

## EXPERIENCE

### Computer Science and Math Tutor

March 2025 – Present

*Knack Tutoring*

*Boston, MA*

- Tutored students in Calculus and Java, tailoring support to individual learning needs
- Maintained a 5-star average rating across 14 two-hour sessions
- Helped 2 students improve from C/B- range to A grades
- Completed Knack's training certification on effective peer tutoring

### New York Public Library Page

July 2023 – April 2024

*General Periodicals Division*

*Manhattan, NY*

- Supported 200+ daily patrons by issuing library cards, checking out periodicals, and answering research requests
- Located rare documents using NYPL's database for academic and international researchers and professors
- Organized and maintained a collection of 10,000+ periodicals, improving accessibility and retrieval efficiency

## PROJECTS

### Picture Collection Relational Database | *Flask, Python, PostgreSQL*

July 2025

- Cleaned and migrated NYPL Picture Collection metadata from Excel to PostgreSQL, improving data structure and integrity
- Developed NLP pipeline using sentence transformers to generate semantically related terms for 11K+ subject headings
- Deployed Flask app allowing visitors to search and discover related materials in the Collection, saving librarians ~5 hours/week

### ClubStop: Club Finding Platform | *React, TypeScript, MySQL*

May 2025

- Co-founded a website that allows college students to find and rate clubs at their school
- Developed TypeScript components for website navigation, search system, and review system

### STHacks Hackathon: 3rd Place | *React, TypeScript*

April 2025

- Built survey matching platform using React, enabling professors and students to recruit participants
- Placed 3rd for functionality, usability, and problem relevance

## LEADERSHIP & EXTRACURRICULARS

### Captain, Sting Robotics Team

October 2022 – February 2024

*Baccalaureate School for Global Education*

*Astoria, NY*

- Developed Java-based control logic enabling omnidirectional movement, contributing to 1st place win at FTC qualifier (32 schools)
- Directed 22 team members in assembly and development of robot logic and managed team finances

## INTERESTS

Music album reviewing, soccer, philosophy, stock trading