

Sean L. Snaider

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EDUCATION

Northeastern University

B.S. in Computer Science, Concentration in Software

Boston, Massachusetts

Expected Graduation, May 2028

- **GPA:** 3.93/4.00, *Dean's List*
- **Related Coursework:** Computer Systems, Algorithms and Data Structures, Object-Oriented Design, Databases

SKILLS

Languages: Python, Java, TypeScript, JavaScript, C, SQL, x86-64 Assembly

Frontend: React, Next.js, Tailwind CSS, Zustand, Web Audio API

Backend & Data: FastAPI, Prisma, PostgreSQL, MongoDB, Pandas, NumPy

Tools & Infrastructure: Git, Docker, Linux/WSL, Vite, Vercel, GDB

EXPERIENCE

Student Government Association, Northeastern University

Boston, Massachusetts

Software Engineer

Feb 2026 - Present

- Build tools for attendance tracking and voting management using **React, TypeScript, Next.js, Prisma** and **PostgreSQL**
- Gather requirements during client meetings and translate user needs into technical implementations
- Collaborate on feature planning and ship code through **PR** reviews with a team of **8** developers

Disrupt, Northeastern University

Boston, Massachusetts

Software Engineer

Sep 2025 - Present

- Build responsive web interfaces using **Next.js, React, Tailwind CSS** in production codebase
- Ship features through **Git** workflows (branching, PRs, code reviews) in collaboration with **5+** developers
- Design and deliver **SQL/Python** workshops (**10-50 attendees**) covering query optimization, joins, and scripting automation

Khoury College of Computer Sciences, Northeastern University

Boston, Massachusetts

TA for Program Design and Implementation 1 (Fall '25) & 2 (Spring '26)

Sep 2025 - Present

- Selected AI coding platform adopted by **400+ students** after evaluating **6 tools**; designed AI literacy lab curriculum teaching prompt engineering and AI-assisted debugging workflows
- Resolve **30+** weekly debugging sessions across **Python/Java**, mentoring students on systematic diagnosis of OOP hierarchies, data structures, and control flow issues

TheCubicle

Elmsford, New York

Software Developer, Senior Experience Program

Jan 2024 - May 2024

- Pitched and secured sponsorship directly with company leadership; completed **100+ hour** mentored development program with iterative code reviews
- Designed and built a Rubik's Cube teaching tool using **MVC architecture** with state validation to guide users through Beginners method solving stages

PROJECTS

Guitar Learning Tool - React, TypeScript, Zustand, Web Audio API, Tailwind - [Github](#)

Nov 2025 - Present

Independent Project

- Achieved **<10ms** audio latency through **Web Audio API** optimization with ADSR envelope shaping, enabling responsive feedback across **144** fretboard positions
- Built scale library with **40+** patterns (modes, pentatonics, jazz) using CAGED and 3-notes-per-string systems, persisting progress via **Zustand** and **localStorage**
- Implemented three practice modes (note ID, sequence drills, interval training) with adaptive difficulties

Rubik's Cube Solver and Teaching Tool - Python, React, TypeScript, FastAPI, MongoDB - [Github](#)

Jan 2024 - Present

Independent Project

- Integrated Kociemba's algorithm, reverse-engineering undocumented cube orientation requirements to achieve **< 20-move solutions** in **<1 second**
- Rebuilt as full-stack web application with **React/TypeScript** frontend using **CSS** 3D transforms, **FastAPI** backend, and **MongoDB** for persistent solve statistics