

# COLIN WONG

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Available: January – August 2026 | Boston, Massachusetts

## EDUCATION

**Northeastern University | Khoury College of Computer Sciences** Expected Graduation Apr 2027

*B.S. in Computer Science, Minor in Mathematics*

*Boston, Massachusetts*

- **Concentration:** Foundations (logic, algorithms, complexity theory)
- **GPA:** 3.83/4.00 (Dean's List) | **Major GPA:** 3.97/4.00
- **Coursework:** Algorithms and Data, Theory of Computation, Logic and Computation, Object-Oriented Design, Computer Systems, Introduction to Databases, Discrete Structures, Linear Algebra, Probability and Statistics, Introduction to Mathematical Reasoning, Information Visualization

## TECHNICAL SKILLS

**Languages:** Java, Kotlin, Python, C, SQL, OCaml, TypeScript/JavaScript, HTML/CSS

**Libraries/Frameworks:** Next.js, React, Spring Boot, Express, FastAPI, Flask

**Testing:** JUnit, Jest, Postman

**Database:** MySQL, PostgreSQL, SQLite, MongoDB

**Tools:** Git, Node, Linux, Docker, Jira

## EXPERIENCE

**Teaching Assistant, Algorithms & Data**

Sep 2025 – Present

*Khoury College of Computer Sciences, Northeastern University*

*Boston, Massachusetts*

- Hold weekly office hours and assist with grading assignments and exams.

**Backend Developer**

May 2025 – Aug 2025

*Liaizon – Startup in Babson College's Summer Venture Program*

*Wellesley, Massachusetts*

- Owned backend development as the sole engineer for a social platform connecting entrepreneurial students across universities.
- Architected and implemented a scalable **FastAPI** backend integrating **Amazon RDS (PostgreSQL)** for relational data and **MongoDB Atlas** for document storage.
- Containerized, deployed, and maintained backend services on **AWS Elastic Beanstalk**, ensuring reliability and scalability.

**Software Product Lab Member**

Jan 2025 – Apr 2025

*Northeastern Forge Club*

*Boston, Massachusetts*

- Developed the backend service for a full-stack web application, designed to compare healthcare plans.
- Collaborated in a 5-person team using **Git**, **Jira**, and **Agile sprints** to manage backend development tasks.
- Designed and implemented a **FastAPI** backend with endpoints to handle PDF uploads, user data submission, chatbot messaging, and asynchronous document processing via **AWS S3** and **Texttract**.

## PROJECTS

**Graph NEU | Next.js, Zustand, FastAPI, PostgreSQL, Docker**

Apr 2025 – May 2025

- Developed an interactive roadmap visualization platform to help Northeastern students discover new courses.
- Integrated **Zustand** for scalable state management and real-time graph updates in the frontend.
- Designed and populated a **PostgreSQL** schema to store course, corequisite, and prerequisite data.
- Implemented course graph traversal and layout algorithms using **NetworkX** for backend logic.

**Go Outside! | Streamlit, Flask, MySQL, Docker**

Mar 2025 – Apr 2025

- Built a full-stack event platform with user roles and features like event discovery, RSVPs, and admin dashboards.
- Created a **Flask REST API** with **30+ endpoints** for event management, user actions, and recommendations.
- Designed **MySQL schemas** and wrote efficient **SQL queries** to manage users, events, and sponsorship data.
- Used **Docker** to containerize the web application for modular development, testing and deployment.

**Multiplayer Chess Platform | React, Spring Boot, Websocket**

Nov 2024 – Jan 2025

- Built a real-time, multiplayer chess game with a **React (TypeScript)** frontend and **Spring Boot** backend.
- Implemented chess logic with **OOP**, using encapsulation and design patterns to model pieces and game state.
- Integrated **STOMP.js over SockJS** to manage **WebSocket** communication, enabling state synchronization.
- Utilized **JUnit** and **Postman** tests to validate game logic and ensure backend correctness during development.