Colin Wong

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School: Boston, MA | Permanent: Bay Area, CA | Availability: Sep 2025 - December 2025

EDUCATION

Northeastern University | Khoury College of Computer Sciences   Boston, Massachusetts
B.S. in Computer Science, Minor in Mathematics   *Expected Graduation May 2027*

- **Concentration:** Foundations
- **GPA:** 3.83/4.00 | **Khoury GPA:** 3.97/4.00
- **Coursework:** Object-Oriented Design, Algorithms and Data, Computer Systems, Introduction to Databases, Discrete Structures, Information Visualization, Intro to Math Reasoning

TECHNICAL SKILLS

Languages: Java, Kotlin, Python, C, SQL, TypeScript/JavaScript, HTML/CSS
Libraries/Frameworks: Next.js, React, Spring Boot, Express, FastAPI, Flask, Sequelize, SQLAlchemy, JUnit, Jest
Database: MySQL, PostgreSQL, SQLite
Real-Time Tech: WebSocket, STOMP.js, SockJS
Tools: Git, Node, Postman, Linux, Docker, Jira

EXPERIENCE

Backend Developer   May 2025 – Present
Liaizon - Startup in Babson College's Summer Venture Program   *Wellesley, Massachusetts*

- Sole backend developer for a Babson-funded startup.

Software Product Lab Member   Jan 2025 – Apr 2025
Northeastern Forge Club   *Boston, Massachusetts*

- Developing the backend service for a full stack web application, designed to compare healthcare plans.
- Worked in a 5-person team using **Git**, **Jira**, and full **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 **Textract**.

Cashier   Jul 2022 – Jan 2023
Panera Bread   *Dublin, California*

- Delivered fast, accurate service in a high-volume customer-facing environment, building strong communication and time-management skills under pressure.

PROJECTS

Graph NEU | Next.js, FastAPI, PostgreSQL, Docker   Apr 2025 – May 2025

- Developing 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.

Multiplayer Chess | React, Spring Boot, WebSocket, JUnit   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.
- Wrote **JUnit** tests to validate game logic and ensure backend correctness during development.

Go Outside! | Streamlit, Flask, Docker, MySQL   Mar 2024 — 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** and **Docker Compose** to containerize the app for modular development and deployment.