Colin Wong

1-(925)-557-6789 | wongcolin45@gmail.com | linkedin.com/in/wongcolin45/ | github.com/wongcolin45

School: Boston, MA | Permanent: Bay Area, CA | Availability: May 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: 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

Forge Club | React, FastAPI, AWS S3, Textract, Gemini   January 2025 – April 2025
Backend Developer   *Boston, Massachusetts*
- Developing the backend for a full stack web application, designed to compare healthcare plans.
- Designed and implemented a FastAPI backend with endpoints to handle PDF uploads, user data submission, chatbot messaging, and asynchronous document processing via AWS Textract.
- Managed full API response flow, including storing user input, routing chatbot messages, and returning extracted document insights to the frontend via clean JSON responses.

Oasis Club | React, Flask   September 2020 – November 2024
Frontend Developer   *Boston, Massachusetts*
- Worked with 5 undergraduate students and a graduate mentor to build a full-stack food recommendation app.
- Built responsive React components utilizing hooks for efficient state management and search functionality.
- Integrated RESTful API endpoints with Flask backend, ensuring smooth data flow between user interactions.
- Coordinated efforts among team members by organizing weekly stand-ups and utilizing Git for version control, fostering effective collaboration and timely project completion.

Panera Bread   July 2022 – January 2023
Cashier   *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   April 2025 – Present
- 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.

Chess | 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 live game updates and move synchronization.

Khoury Schedule Planner | React, Express, SQLite, Sequelize   August 2024 – November 2024
- Developed a full-stack scheduling tool to help students visualize degree progress and plan future terms.
- Implemented a responsive frontend with **React**, utilizing hooks and dynamic API integration.
- Created a RESTful backend with **Express** to serve course data and generate plan suggestions.
- Structured an **SQLite** database and used **Sequelize ORM** to streamline queries and ensure data integrity.