

# LUKE COLOMBO

LinkedIn · Personal Website · colombo.l@northeastern.edu · Boston, MA · 415-849-8264

Availability: September - December 2023

## Education

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Northeastern University, Khoury College of Computer Sciences

Boston, MA

*Candidate for B.S. in Computer Science & Cognitive Psychology*

May 2025

GPA: 3.52/4.0, Dean's List

Activities: Rock Climbing Club, WRBB Radio, Tastemakers Magazine, IM Sports (Volleyball, Soccer)

Relevant Coursework: Networks and Distributed Systems (Python), Algorithms and Data, Statistics (SPSS), Object Oriented Design (Java), Cognition, Biological Psychology

## Technical Knowledge

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Languages: Java | Python | LaTeX | Javascript | HTML | CSS | Scheme/Racket | React

Software: Github | Microsoft Excel | IntelliJ | Visual Studio Code | SPSS Statistics

Skills: Cloud Computing | Git | TCP/IP Sockets | Command Line Scripting | HTTP | Distributed Systems

## Personal & Academic Projects

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### Distributed Database

Apr. 2023

- Developed and tested a distributed key-value database, supporting API calls from clients across 5 replicas
- Enforced RAFT protocol for fault tolerance, consensus, and performance in object oriented Python

### Connect Four

Dec. - Feb. 2023

- Designed program in Java to simulate Connect Four using MVC architecture and a Swing library GUI
- Incorporated the strategy design pattern to add algorithms that let user play against the computer

### FTP Client

Jan. 2023

- Created a client that implements File Transfer Protocol using TCP/IP sockets and TLS in Python
- Runs in Unix terminal with command line arguments, processed with the argparse library

## Work Experience

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### Digital Ready Computer Science Lab Leader

Boston, MA, Jul. 2023 - Present

- Supervised and mentored 60 high-school students through coursework in IT, UI/UX, programming, and machine learning
- Oversaw deliverables such as a Python card game project, portfolio website, and Google certificates in IT Support and UX Design
- Organized daily lectures and activities; created a curriculum focused on innovation and problem solving

### Safeway Courtesy Clerk

Larkspur, CA, Jul. 2020 - May 2021

- Facilitated cleaning of store, communicated between customers and managers in a fast paced environment
- Assisted with bagging groceries, self-checkout machines, and collecting carts

### Soundwaves Piano/Drum Tutor

Marin City, CA, Sept. 2019 - Mar. 2020

- Volunteered for a non-profit providing weekly music lessons to students at MLK Bayside Elementary
- Coordinated efforts to expand the program, increasing enrollment by 20% the next semester

## Extracurricular Involvement

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Tastemakers Magazine: Writer of editorials and commentary on the music industry, albums, and concerts

Interests: Proficient in Spanish, Jazz Piano, Mountain Biking, Sustainability, Music Production, Basketball

*References available upon request*