LUKE COLOMBO

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Availability: May - December 2024

Education

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, Tastemakers Magazine, IM Sports (Volleyball, Soccer)
Relevant Coursework: Natural Language Processing (Python), Database Design (MySQL), Networks and Distributed Systems, Algorithms and Data, Mathematics of Data Models, Object Oriented Design (Java)

Technical Knowledge

Languages: Java | Python | LaTeX | MySQL | Javascript | HTML | CSS | Scheme/Racket | React
Software: Github | Microsoft Excel | IntelliJ | Visual Studio Code | SPSS Statistics | MySQL Workbench
Skills: Cloud Computing | Git | TCP/IP Sockets | Command Line Scripting | HTTP | NLP

Work Experience

Digital Ready *Computer Science Studio Manager*   Boston, MA | Jul. - Dec. 2023
- Supervised and mentored 20 high-school students in a Computer Science Bootcamp course, also supported the math and English courses
- Organized daily lectures and activities; created a curriculum focused on innovation and problem solving
- Oversaw deliverables such as a Python card game project, OpenCV project, and Google certificates in IT Support and UX Design

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

Personal & Academic Projects

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

Extracurricular Involvement

Tastemakers Magazine: Writer of editorials and commentary on the music industry, albums, and concerts
Interests: Proficient in Spanish, Jazz Piano, Mountain Biking, Urban Planning, Music Production, Basketball

References available upon request