LUKE COLOMBO

LinkedIn URL · Website URL · colombo.l@northeastern.edu · Boston, MA
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
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 | MySQL | React | Javascript | Scheme/Racket | LaTeX | MongoDB
Software: Github | Microsoft Excel | IntelliJ | Visual Studio Code | SPSS Statistics
Skills: Git | TCP/IP Sockets | Command Line Scripting | HTTP | Machine Learning | NoSQL | OOD

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

Personal & Academic Projects

Animal Shelter Database   April. 2024
- Developed an system to track animals, applications, and staff at an animal shelter using a SQL database
- Utilized MySQL for back-end procedures and triggers, Python for front-end functionality via a command-line interface with unique views for managers, volunteers, and visitors

Connections Maker   Mar. 2024
- Creating an app to let people create their own NYT connections puzzles and send them to others
- Code written in React/HTML/CSS, app is hosted on the web using Firebase

N-Gram Language Model   Feb. 2024
- Created a rule-based language model that generates text based on the previous n tokens
- Written in Python with the numpy and matplotlib modules used for graphing and evaluation

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

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