**EDUCATION**

**Bachelor of Arts in Computer Science**  May 2026  
*Boston University, College of Arts and Sciences Boston, MA*  
GPA: 3.58 / Dean’s List (5 Semesters)  
*Relevant Coursework*: Discrete Mathematics, Linear Algebra, Computer Systems, Probability, Concepts of Programming Languages, Analysis of Algorithms, Web Development, Software Engineering, Database Systems, Data Science Tools and Applications

**WORK EXPERIENCE**

**Undergraduate Course Facilitator** September 2024 – May 2025  
*Boston University, College of Arts and Sciences Boston, MA*

* Course Assistant for *CS 112: Introduction to Computer Science 2* (Spring 2025) and *CS 237: Probability in Computing* (Fall 2024).
* Co-hosted weekly discussion sessions, reviewing course material by guiding students through exercises.
* Held weekly office hours to assist students with coursework and discuss course content.
* Graded weekly problem sets and provided feedback to over 350 students.

**Engineering Intern** September 2022 – December 2022\*  
*LA Acoustical Services Inc Canoga Park, CA*

* Recorded data and assisted with outdoor ambient noise monitoring in residential areas.
* Generated transmission data by operating tapping machine during indoor impact sound testing.
* Informed clients about in-unit sound testing procedures and other information.

**PROJECTS (**[**GitHub**](https://github.com/ExoticBubble15/)**)**

[**CA Wildfire Prediction**](https://github.com/ExoticBubble15/CA-Wildfire-Prediction)Python, SQLite  
Libraries: Matplotlib, NumPy, Reverse Geocode, Scikit-learn

* Wrote scripts to process, query, and visualize weather data in multiple formats.
* Machine learning model that uses historical weather data for over 50 California cities and statewide fire data, from 2014 to present, to identify areas at the highest risk for a breakout.

[**Spark! Bytes Web Application**](https://github.com/ethanrous/spark-bytes)TypeScript, Go, SQL  
Frontend: Next.js/React; Backend and API: Go; Database: PostgreSQL

* Web application that allows users to access excess food from social events, in an effort to reduce food waste.
* Users can sign up with a valid *@bu.edu* email to view all events, post and modify their own events, and reserve their attendance at events.
* Developed as part of a group of 5 members, with key responsibilities including linking frontend to backend via API calls, handling user input, ensuring frontend quality and usability, and performing integration testing.

[**GPT Automated Web Puzzle Solver**](https://github.com/ExoticBubble15/CircuitsAutomation) Python  
API: GPT-4o; Libraries: NumPy, OpenAI, OpenCV, PyAutoGUI, Pillow, Pyperclip, Pytesseract

* Captures, processes, and analyzes on-screen puzzle data using screen capture, color masks, and OCR.
* Solutions generated by GPT-4o API are used to update the browser and internal nodes, with browser consistently monitored to ensure correctness and efficiency.

**SKILLS**

**Languages** (in order of proficiency) – Python, Java, SQL/SQLite, HTML/CSS, OCaml, XQuery  
**Software** – Git, GitHub, Google Workspace, Microsoft Office, Slack, VS Code