

Jude Cudiamat Lopez

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EDUCATION

Bachelor of Arts in Computer Science

Boston University, College of Arts and Sciences

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

May 2026

Boston, MA

WORK EXPERIENCE

Undergraduate Course Facilitator

Boston University, College of Arts and Sciences

September 2024 – May 2025

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

LA Acoustical Services Inc

September 2022 – December 2022*

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](#))

CA Wildfire Prediction

Libraries: Matplotlib, NumPy, Reverse Geocode, Scikit-learn

Python, SQLite

- 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

Frontend: Next.js/React; Backend and API: Go; Database: PostgreSQL

TypeScript, Go, SQL

- 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

API: GPT-4o; Libraries: NumPy, OpenAI, OpenCV, PyAutoGUI, Pillow, Pyperclip, Pytesseract

Python

- 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

*Ongoing assistance during academic breaks