Jude Cudiamat Lopez

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EDUCATION

Bachelor of Arts in Computer Science — May 2026
Boston University, College of Arts and Sciences — *Boston, MA*
GPA: 3.61
Dean's List: Fall 2024, Spring 2024, Fall 2023, Summer 2023, Spring 2023
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 – Present
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).
- Cohosted 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.
- Operated tapping machine during indoor impact sound, generating transmission data.
- Informed clients about in-unit sound testing procedures and other information.

PROJECTS (GitHub)

CA Wildfire Prediction — Python

- Final project for CS 506: Data Science Tools and Applications, currently in progress.
- Machine learning model that will use historical weather data for over 50 California cities and state-wide fire data, spanning from 2013 to present, to identify the area at highest risk for a breakout.

Spark! Bytes Web Application — 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 a 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 — 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 – Java, JavaScript, OCaml, Python, SQL/SQLite
Software – Git, GitHub, Google Workspace, Microsoft Office, VS Code

*Courses currently in progress