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: 3.58 / 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)

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 — 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 — 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, Postman, Slack, VS Code

*Ongoing assistance during academic breaks