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, Computer Systems, Probability, Concepts of Programming Languages, Analysis of Algorithms, Distributed Systems, 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).
- Held weekly discussion sessions and office hours to review course content, guide students through exercises, and assist with coursework.
- Graded weekly problem sets and exams, providing feedback to over 350 students.

Engineering Intern   September 2022 – December 2022*
LA Acoustical Services Inc   *Los Angeles, 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 for data processing, feature engineering, and visualizing 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   TypeScript, Go, SQL
Frontend: Next.js/React; Backend and API: Go; Database: PostgreSQL

- Web application where users can create an account to view public food events, post and modify their own events, and reserve their attendance at others' events.
- Linked frontend to backend via API calls, handled user input, ensured frontend quality and usability, and performed 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, Go, MongoDB, XQuery
Software – Git, GitHub, Google Workspace, Microsoft Office, Postman, Slack, VS Code

*Ongoing assistance during academic breaks