

CORWIN LEE

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Education

University of Massachusetts Amherst

Bachelor of Science in Informatics - Data Science Track

Expected Dec. 2025

Amherst, Massachusetts

Relevant Coursework

- Object-Oriented Programming
- Web Programming
- Database Management
- Predictive Analytics
- Data Structures
- Data Analytics
- Business Intelligence
- Human-Computer Interaction

Experience

Google Computer Science Institute

Summer 2021

Web Design Intern

Remote

- Developed 10+ interactive web projects using HTML, CSS, and JavaScript, focusing on responsive design and modern programming standards.
- Collaborated with a team in a Git-based workflow to build and present a final project to Google engineers.

University of Massachusetts Amherst

Aug. 2023 – May 2024

Undergraduate Course Assistant

Amherst, Massachusetts

- Tutored over 40 students in foundational CS and Informatics courses through office hours, grading, and direct support.
- Maintained course materials and managed assignment submissions for two courses using Canvas and Gradescope.

Harvard University

Jan. 2025 – Present

Research Assistant

Amherst, Massachusetts

- Wrote Python scripts to clean and structure large-scale incarceration datasets for cross-national analysis.
- Collected and summarized historical statistics and academic papers on penal policy to support faculty research.
- Assisted Professors John Clegg and Adaner Usmani with ongoing mass incarceration research.

Projects

Letterboxd Wrapped | *React, JavaScript, JSZip, PapaParse, Recharts, d3-cloud* 🐙

Spring 2025

- Built a front-end data visualization app in **React** to allow users to upload and analyze their Letterboxd data export.
- Wrote client-side logic with **JavaScript** to parse ZIP/CSV files and calculate dozens of unique viewing statistics.
- Developed a responsive dashboard with interactive charts (**Recharts**) and a module for sentiment analysis of user reviews.

Card Counting Tutor | *React, JavaScript, HTML/CSS* 🐙

Fall 2024

- Built a Blackjack simulator that teaches the Hi-Lo card counting strategy using a dynamic deck configuration.
- Used React to manage the complete game state, including dealer logic, card interactions, and user feedback.

AI Audiobook Reader | *Flask, JavaScript, Coqui TTS, HTML/CSS* 🐙

Summer 2024

- Developed a web app that converts PDF files into audio using an open-source text-to-speech engine.
- Used a Flask backend to serve a front-end that parsed PDF text and streamed the resulting audio in-browser.

Technical Skills

Languages: Python, Java, C, JavaScript, SQL, R, Swift, HTML/CSS

Web Development: React, Vue.js, Flask, HTML/CSS, Recharts, d3-cloud, JSZip, PapaParse

Developer Tools: Git, VS Code, XCode, Google Cloud, Linux

Data/ML Libraries: Pandas, NumPy, Scikit-learn, Coqui TTS

Leadership / Extracurricular

Asian American Student Association

Fall 2022 – Spring 2024

Sponsorship and Grant Coordinator

UMass Amherst

- Led grant writing and outreach efforts to raise over \$40,000 in funding and in-kind donations.
- Assisted the executive board with planning and promoting large-scale cultural events for the campus community.