Corwin Lee

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Education

University of Massachusetts Amherst **Expected Dec. 2025**

Bachelor of Science in Informatics - Data Science Track *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*

- Raised over $40,000 in funding and in-kind donations by writing grant proposals and contacting corporate sponsors.
- Assisted the executive board with planning and promoting large-scale cultural events for the campus community.