

# Carlynda Gao

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🇺🇸 U.S. Citizen

## EDUCATION

### UNIVERSITY OF CALIFORNIA, BERKELEY

*B.A. in Computer Science, Pure Mathematics, & Philosophy*

- Relevant coursework: Multivariable Calculus, Data 8 - Foundations of Data Science, Math 54 - Linear Algebra & Differential Equations, Math 55 - Discrete Mathematics, Math 104 - Real Analysis, Math 110 - Abstract Linear Algebra, Math 185 - Complex Analysis, CS 198 - Full-Stack Web Development, CS 61A - Structure & Interpretation of Computer Programs, CS 61B - Data Structures & Algorithms, CS 61C - Computer Architecture, CS 184 - Computer Graphics, EECS 127 - Optimization Models in Engineering, EEP 100 - Intermediate Microeconomics

## EXPERIENCE

### UC BERKELEY DEPARTMENT OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES

*Research Assistant at the Berkeley Lab for Usable & Experimental Security (BLUES)*

Aug. 2024 - May 2025

- Contributed to a project on improving privacy guidance for app developers of child-directed apps through qualitative coding and thematically analyzing 216 pages of semi-structured interviews with 15 developers
- Utilized HTML, CSS, & Javascript to build a guidance web application for app developers to use as privacy guidance
- Compiled international privacy laws & cybersecurity regulations & updated the guidance web application accordingly

### CORNELL UNIVERSITY S.C. JOHNSON COLLEGE OF BUSINESS

*Research Intern*

June 2023 - Dec. 2023

- Authored a 10-page paper on the business operations of the boba shop industry by tracing the international supply chain, quantifying the economic impact of COVID, & predicting future economic trends through statistical analysis
- Conducted a 12-page review on the Chinese diaspora, East Asian immigration patterns in the 20th century, the formation of urban enclaves, the historical proliferation of East Asian businesses, & performed case studies on the impact of economic discrimination using qualitative analysis of historical data

## PROJECTS

### AMBIENT GI WITH CACHING | [98SEAN.GITHUB.IO/CS184-FINAL-PROJECT/FINAL/INDEX.HTML](https://98sean.github.io/cs184-final-project/final/index.html)

*C++, C, HTML*

- Facilitated the creation of an octree-based ambient global illumination caching system, which accelerates indirect lighting computation through caching & interpolation to achieve 15 - 30× speedup over Monte Carlo path tracing
- Completed literature reviews of grid-based cache & octree-based cache algorithms, interpolation technique & cache memory management code implementations, & scene rendering testing & debugging for grid & octree data structures

### BUTTERFY | [GITHUB.COM/GOTTAGETAID/BUTTERFY-FIX](https://github.com/GottagetaPaid/butterfly-fix)

*React, Vite, Javascript, HTML, Tailwind CSS, Node.js, Express.js, Next.js, Postman, MongoDB, Spotify Web API*

- Collaborated on Butterfly, a website which uses MongoDB to allow users to create accounts & profiles to match with 5 other users with similar music taste based on the users' top songs, artists, & genres, tested with Postman
- Created a recommendations page which uses the Spotify Web API to generate a list of songs, albums, or artists that match the user's preferences, with the option to upvote or downvote each suggestion to influence future suggestions

### PERSONAL WEBSITE | [CARLYNDAXGAO.COM](https://carlyndaxgao.com)

*HTML, CSS, Javascript, Three.js, Express.js, Node.js, Vercel*

- Built a full-stack personal website from scratch utilizing HTML & CSS, implemented an interactive 3D model, display mode toggle, & mobile view dropdown using Javascript & Three.js, & used Express.js & Node.js to serve & deploy my personal website with Vercel to showcase my interests, skills, projects, experiences, & contact

## SKILLS

- **Languages:** Python, Java, C, C++, Matlab, HTML, CSS, JavaScript, TypeScript, SQL
- **Technologies:** React, Vite, Tailwind, Three.js, Node.js, Express.js, Next.js, Postman, MongoDB, NumPy, Pandas, Matplotlib, Seaborn, Scipy, Jupyter, Colab, Git, Github, Vercel, Microsoft Office, Figma, Blender
- **Skills:** Data Analysis, Research, Object-Oriented Programming, Front End, Back End, Machine Learning, Graphic Design, Statistical Analysis, Problem Solving, Public Speaking, Leadership, Teamwork, Communication