

Campbell Gilbert

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EDUCATION

Occidental College

May 2024

California Institute of Technology (*dual enrollment*)

June 2024

B.A. with Honors in Computer Science, minor in English

Los Angeles & Pasadena, CA

- **GPA:** 3.76; CS Honors selected due to exemplary capstone research.
- **Courses:** Data Structures & Algorithms, Machine Learning, Linear Algebra, Game Design, LLMs & Vision Models
- **Extracurriculars:** Varsity Swim Team, Tabletop Roleplaying Game Club Co-founder/Co-President

WORK & RESEARCH EXPERIENCE

Occidental College Computer Science Department

August 2023-Present

Teaching Assistant & Private Tutor, Data Structures

Los Angeles, CA

- Created innovative methods to teach undergraduate and high school students complex concepts; improved student grades by as much as 20%.
- Consistently received high praise for clarity & effectiveness in teaching. Built word-of-mouth office hours attendance by students from outside classes to receive superior instruction.

Moore Laboratory of Zoology

August 2022-Present

OBird Project Researcher

Los Angeles, CA

- Played key role in oVert Thematic Collection Network, focusing on digitizing Californian & Mexican bird specimens from the College Moore Lab and LA County Museum of Natural History, enhancing vertebrate diversity database.
- Employed unique photogrammetry pipeline and advanced 3D modeling skills using Blender to create detailed and accurate digital renderings of bird specimens to be uploaded to public database and conducted innovative biological research using UV image-texturing on digital models to explore unique aspects of avian vision.
- Improved organization and accessibility of digital database by maintaining a detailed spreadsheet of all uploaded renders, including relevant metadata such as specimen location, taxonomic classification, and date of upload.

Joy Life Inc.

June 2023-August 2023

Full-Stack Web Development Intern

Palo Alto, CA

- Spearheaded the development of a “digital concierge” feature using GPT-3 API for personalized suggestions, enhancing product recommendations post-purchase; laid down robust and scalable foundation for future project development to ensure majority code reusability.
- Utilized advanced JavaScript techniques for full-stack development and SQL for efficient data handling, significantly improving user experience and data integrity.

Mighty Networks

June 2022-August 2022

Marketing Website and Community Marketing Intern

Palo Alto, CA

- Provided numerous contributions to large, pre-existing website codebase by contributing exciting, well-designed infographics to home and pricing pages of marketing site, and by streamlining and cleaning up pre-existing code.
- Collated pre-existing resources into single, accessible Free Resources course to help new users with getting started on the platform, and to funnel users into purchasing paid plans.

Occidental College Physics & Geology Department

August 2021-May 2023

Student Administrative Assistant

Los Angeles, CA

PUBLICATIONS & RESEARCH

Blackburn DC, et al. 2024. *Increasing the impact of vertebrate scientific collections through 3D-imaging: the openVertebrate (oVert) Thematic Collections Network*. **Bioscience**. <https://doi.org/10.1093/biosci/biad120>. (Part of oVert Project Team)

SKILLS

- **Languages:** Python, Java, C#, C, JavaScript (TypeScript), CSS, HTML, SQL, XAML
- **Frameworks:** Git, Linux, PyTorch, Pandas, NumPy, Matplot, React, Node.js, .NET, ROS2, Blender, Agisoft Metashape, Matlab, Mathematica, Unity