Campbell Gilbert

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EDUCATION

Occidental College   **May 2024**
California Institute of Technology *(dual enrollment)*   **June 2024**
B.A. with Honors and Distinction in Computer Science; minor in English   *Los Angeles, CA*
- **GPA:** 3.8; CS Honors selected due to exemplary capstone research.
- **Courses:** Linear Algebra, Statistics & Data Analysis, Machine Learning, Robotics, Large Language & 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*
- Devised and conducted interactive mentoring workshops by engaging students with high interpersonal and communicative skills, enhancing understanding of complex topics and leading to up to 20% improvement in grades.
- Created and implemented detailed supplementary curriculum break down complex concepts into accessible explanations, surpassing professors' depth, more than doubling average office hours attendance through the semester and garnering high rate of positive feedback for clarity & engagement.

Occidental Moore Laboratory of Zoology   **August 2022-Present**
oVert (OBird) Project Researcher   *Los Angeles, CA*
- Aided in the digitization of over 500 Californian and Mexican bird specimens, significantly contributing to the oVert Thematic Collection Network.
- Pioneered the use of novel UV image-texturing on digital models to uncover new insights into avian vision, bolstering the project's nationwide recognition.

Joy   **June 2023-August 2023**
Full-Stack Web Development Intern   *Palo Alto, CA*
- Led initial development phase of a "digital concierge" feature, utilizing the GPT-3 API to innovate personalized product recommendations; applied advanced JavaScript, SQL techniques in frontend and backend development roles.

Mighty Networks   **June 2022-August 2022**
Marketing Website and Community Marketing Intern   *Palo Alto, CA*
- Enhance marketing site UX by integrating well-designed infographics, and created comprehensive Free Resources course to increase onboarding of new users by up to 13%.

Occidental College Physics & Geology Department   **August 2022-October 2023**
Student Administrative Assistant   *Los Angeles, CA*
- Led efforts to hire new Physics professor while continuing administrative support of current faculty, and train interim department administrator, amidst mid-year staffing change.

PUBLICATIONS & PROJECTS

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.

RavenDesk, an LLM-powered word processor for creative writers. Written in C# with the .NET MAUI full-stack app development framework; accompanied by research paper, both here.

GRADEE: Gathered Responses for Assessing Depth of Essay Evaluation, dataset to evaluate how well LLMs give feedback on student essays, focusing on evaluating understudied real-world applications of AI, here.

SKILLS

- **Languages:** Python, Java, C#, C, JavaScript, TypeScript, CSS, HTML, SQL, XAML
- **Tools:** Git, Linux, Pytorch, TensorFlow, Pandas, NumPy, Matplot, React, Node.js, SQL, .NET, ROS2, Excel, Blender, Matlab, Mathematica, Unity, Microsoft Azure, REST APIs, AWS, JIRA, Docker, Kubernetes