

# ELSA DUBIL

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## EDUCATION:

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### UCLA | 2018 - 2023

- Bachelor of Science in Bioengineering
- Awards: Engineering Achievement Award in Student Welfare, Will Rogers Scholarship

## RELEVANT EXPERIENCE:

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### Wong Laboratory, Undergraduate Research

Undergraduate Project Manager and Programming Lead | September 2021 - May 2023

- Spearheaded team of six in leveraging machine learning and variational autoencoding techniques to automate microscopic image analysis of over 50,000 images using C++, Python, and Julia programming languages, resulting in a 240% increase in image processing efficiency and optimizing data-driven insights.
- Developed and published comprehensive release notes and documentation, providing valuable support to the application team in identifying the root causes of issues and implementing effective corrective action plans.
- Oversaw the end-to-end development and meticulous testing of an innovative injectable medical device with a focus on safety, efficacy, and regulatory compliance. Led extensive research efforts and successfully coordinated cross-functional teams to ensure the product's integrity and adherence to stringent quality standards.

### Lactation Lab Startup

Bioengineering Intern | August 2022 - September 2022

- Collaborated with a cross-functional team of software developers and scientists to ideate, design, and launch the world's first spectrophotometer smartphone application, which received FDA breakthrough clearance.

### Electrical & Computer Engineering 88S: The Internet and Free Speech Seminar

Class Instructor | September 2021 - June 2022

- Devised and taught a thought-provoking 10-week course to 25 UCLA undergraduate students, delving into the broader implications of computer engineering on democracy and global free speech.
- Fostered engaging discussions and encouraged critical thinking to explore the intricate relationship between technology and societal values, achieved average student rating of 4.96/5.0

## SKILLS:

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- **Programming Languages:** C++, Python, JavaScript, MATLAB, HTML (advanced); Julia, Ruby (intermediate)
- **Events and Projects:** Job Application Autofiller Chrome & Firefox Extension (2023), TreeHacks (Mental health Python-based web project "In Space", 2021), QWER Hacks (medication tracking Android application, 2021-2022)
- **Software:** AutoCAD, Git, Figma, Pluto Notebooks for Julia, Unity and Unreal Engines, Blender, Arduino Electronics, Adobe Suite, Office 365, Benchling, Bootstrap, Wordpress
- **Spoken Languages:** English, French, Polish (intermediate)

## LEADERSHIP:

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### UCLA Student Wellness Commission

Program Director and Curriculum Development Director | May 2020 - June 2022

- Directed and orchestrated the comprehensive UCLA sexual health and education program for the undergraduate student body. Led the development of a user-friendly website and designed informative educational materials to promote a culture of well-being.
- Managed an internal team of 8 board members and 35 volunteers, fostering a collaborative environment and ensuring seamless execution of program initiatives.

### Cirque de 'LA

Founder and President | September 2018 - Present

- Founded first acrobatics organization at UCLA providing low-cost aerial silks and ground acrobatics instruction
- Led board members in meetings, managed organization teaching over 300 community members, taught classes twice per week, and hosted quarterly performances; directed Spring Sing performance for an audience of 7000+