

Louie Joshua Labata

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EDUCATION

University of California, Berkeley, GPA: 3.9

Expected May 2026

Degree: Bachelor of Science in Electrical Engineering and Computer Sciences

Relevant Coursework: The Structure and Interpretation of Computer Programs, Data Structures, Micromouse

Diablo Valley College

July 2021 - May 2022

Relevant Coursework: Introduction to Robotics, Intro to Technical Drawing, Assembly/Fabrication Workshop

RELEVANT EXPERIENCE

Cal NERDS

May 2023 - June 2023

Data Validation Summer Intern

Berkeley, CA

- Validated the data of the UC Berkeley website, [STAR](#), containing over 200+ STEM resources.
- Involving: geolocating campus spaces using ArcGIS Survey123, verifying data, archiving data, web content editing, blog development, social media posting, and project management using Basecamp.

Benchmark Electronics

June 2022 - Aug 2022

Process Feedback System Intern

Concord, CA

- Modeled parts and created their technical drawings on Solidworks for integration into the company's Process Feedback System that machine operators use as a reference to verify their parts specifications.
- Researched and documented the process that utilizes Bluetooth calipers with workstations saving operators time from manually entering dimensions and paving the way for future implementation.

PROJECTS

Build Your Own World

July 2023 - August 2023

- Designed a procedurally generated pseudo-random 2D tile-based map engine.
- Implemented persistence that allows players to load and or "replay" the previous game state, visually displaying all of the actions taken in that game with options for control such as pause and play.
- Developed a user interface and created animations.

Gitlet

July 2023

- Implemented a version-control system that mimicked basic features of Git
- Utilized various data structures and algorithms.
- Supported Features: commit, init, add, rm, log, global-log, find, status, restore, branch, switch, reset, merge.

Micromouse

January 2023 - May 2023

- Assembled a maze-solving robot car by soldering components together
- Programmed autonomous navigation through the usage of sensors and PID loops

SKILLS

Languages: Java, Python, C++, CSS, HTML, Javascript, Scheme, SQL

Frameworks & Tools: React.js

Software: Git, SolidWorks, Fusion 360, Google Workspace, MS Excel

WEBSITES

Github: <https://github.com/LouieLabata> **Portfolio:** <http://louiejoshualabata.com/>