

DERRICK LIN

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EDUCATION

University of California, San Diego

Sep 2022 - Jun 2026

Bachelor of Science in Computer Engineering and Cognitive Science (Machine Learning & Neural Computation), GPA: 3.3

Academic Awards: Provost Honors | **Relevant Courses:** Data Structures, Algorithms, Operating Systems

WORK EXPERIENCE

Qualcomm Institute

Jan 2024 - Present

Software Engineering Intern

La Jolla, CA

- Utilized **Unreal Engine** to model detailed and accurate digital twins of UCSD Campus and Chula Vista Bayfront

LearnWise AI

Oct 2023 - Dec 2023

Software Engineering Intern

Remote

- Developed and deployed **AWS Lambda functions** using Python and **Linux** command line, resulting in faster response times for products like chatbots
- Used **Python** and **boto3** to initiate AWS batch jobs to sort and clean customer data, resulting in a **40% reduction** in manual work through automated data processing tasks
- Designed and developed an **HTTP server** in AWS Lambda for efficient management and manipulation of LearnWise AI's customer data

LEADERSHIP EXPERIENCE

Computer Science and Engineering Society (CSES) at UCSD

Sep 2023 - Present

Event Director - Professional Development

La Jolla, CA

- Organized and led **40+ yearly workshops and social events** held within CSES communities, reaching **2000+ students**
- Created technical workshops, projects, and events within CSES, providing career development support
- Fostered the development of **CSES's mentorship program** that exposed computer science to hundreds of underrepresented students

PROJECTS

Triton Delivery

Jun 2023 - Present

Food Delivery App for UCSD Students

- Created an iOS app using **Swift** and **Firebase** for UCSD students, resulting in a **600% reduction** in food pickup times (30 min to 5 min)

A Breast Cancer Detector

Jun 2023 - August 2023

Machine learning-based breast cancer detection system

- Developed a **Flask**-based web application for breast cancer detection, integrating a machine learning model trained on UCI's **open-source** datasets to predict tumor malignancy with a 95% accuracy rate

TECHNICAL SKILLS

Languages | Java, Python, JavaScript, Typescript, C, C++, Go, ARM Assembly, HTML, CSS, Swift, MATLAB

Technologies | React, Rest APIs, Node.js, Flask, FastAPI, PostgreSQL, Next.js, MongoDB, Express, Git, JUnit, Unreal Engine

Software | AWS, Google Cloud Platform, Heroku, Valgrind, Firebase, Postman