

Derek K. Xu

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EDUCATION

University of California, Irvine

B.S. in Computer Science

GPA: 3.923

Honors: Campuswide Honors Collegium

Expected Graduation: June 2025

Irvine, CA

PROJECTS

Techtern Insight | <https://techtern.fido27.tech>

August 2023 - Present

- Collaborating closely with a team of four peers to contribute to the development and successful launch of a Flask-based website tailored towards assisting college students in their quest for software engineering internships
- Developing a Selenium-based web scraper for extracting key data for 300+ internships from job posting websites
- Conducting thorough Exploratory Data Analysis (EDA) on the internship dataset to extract insights into diverse internship opportunities, empowering students to make informed comparisons among different options

ACTIVITIES

UC Santa Barbara Summer Research Academies

June 2021 - July 2021

Machine Intelligence Student Researcher

Remote

- Studied machine learning algorithms by delving into their theory and implementing them
- Collaborated with two peers to construct a neural network model aimed at forecasting COVID-19 case trends
- Delivered a compelling presentation and reached a conclusive finding that the model strongly substantiates the efficacy of COVID-19 vaccines in a research paper

PUBLICATIONS

Kasamsetty, R., Hellman, A., **Xu, D.**, & Solgi, R. (2022). Predicting COVID Cases: Effectiveness of the Vaccine. Journal of Student Research, 11(3). <https://doi.org/10.47611/jsrhs.v11i3.2662>

LEADERSHIP EXPERIENCES

Mappers for Humanity Club

February 2021 - May 2021

President

Dublin, CA

- Contributed to mapping uncharted regions in dire need of humanitarian support across the globe
- Added 2,783 buildings and 67 kilometers of road in 20+ countries to OpenStreetMap
- Recruited, mentored, and successfully guided a team of 10 club members to accomplish our mapping objectives

Valley Children's Museum

October 2018 - August 2020

Teen Leadership Council Member

Dublin, CA

- Played an integral role in orchestrating crafts, experiments, and sensory play activities for 100+ children across 15 museum events by creating procedures, submitting supply lists, setting up equipment, and actively assisting children with their tasks
- Created an educational science video for children by conducting an experiment and explaining its results
- Spearheaded the inaugural virtual event during the COVID-19 pandemic by conducting a live science experiment

TECHNICAL SKILLS

- Programming languages: Python, Java, C++, HTML, CSS, Bash, SQL
 - Java IT Specialist Certification *May 2022*
 - Python IT Specialist Certification *May 2022*

AWARDS

Catherine Kuo Community Service Scholarship

May 2022

Dublin High School Parent Faculty Student Organization Scholarship

May 2022