

GUK IL KIM

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My website: <https://62cf28f6cc1f0c37bad84022--gorgeous-choux-f2857d.netlify.app> | <https://github.com/DanielKim12>

EDUCATION

University of Southern California, *M.S. in computer science*
GPA: 3.35

Los Angeles, California
Aug 2023 - May 2025

University of California - Davis, *B.S. in computer science*
GPA: 3.728

Davis, California
Sep 2019 - Mar 2023

EXPERIENCE

Veterinary Medicine Department

Software Engineer; researcher

Davis, California
July 2022 - Jan 2024

- **Implemented:** lepto-classifier, AI prediction tool, website using Flask, HTML/CSS, JS
<https://drkrystlereagan.com/leptospirosis-ai-tool/>
- **Developed:** a highly accurate machine learning model to predict Feline UTI with a 82 percent accuracy rate
- **Selected and Implemented:** a classification model to increase AUC performance and Accuracy up to 90 percentage for the machine learning model

Utilities and Headquarters

ArcGIS Student Inspector engineer

Davis, California
July 2022 - Aug 2023

- **Developed:** automated script to filter 15,000 ARCADE apj files with invalid path, reducing the error rate by 99 percentage
- **Inspected and developed:** The ARCGIS model that captures all damaged infrastructures on campus that alerted faculty members to fix all the damage for student's safety

CodeLab

Full stack Developer

Davis, California
Aug 2020 - Mar 2021

- **Implemented:** CodeLab website, resulting in a 70 percent increase in new client acquisition
- **Developed:** CodeLab Website using React.JS with Grid properties to utilize layers for the frontend, MongoDB for the database to check the data traffic on the backend server <https://www.codelabdavis.com>
- **Tested:** backend server with Insomnia, checking if the JSON data were transmitting to the local server

Libretxt

Automation Developer

Davis, California
Dec 2020 - Sep 2021

- **Developed:** automation to convert physical textbook into online textbook that includes HTML
- **Implemented:** Mathematics Libretext that is viewed and downloaded by thousands of UC Davis students

LEADERSHIP EXPERIENCE

USAF-519 | Team Lead

Los Angeles, California

- **Organized:** team meetings and scheduled interviews with sponsors to collect and contribute on developing prototype models that ensure accuracy with low cost to help test flight engineers at United States Air Force base.

Twin Rivers Unified School District | Full Time Instructor

Sacramento, California

- **Implemented:** effective learning strategies to teach and lead K5 kindergarten students along with providing them with a safe environment.

PROJECTS / PUBLICATIONS

- **Geospatial Data Handling:** Spatial queries to visualize locations near Tommy Trojan, spatial diagrams to highlight near neighbors <https://github.com/DanielKim12/CSCI-585-HW3>
- **Hands together Website:** Revamp hands together website with new features
<https://62cf28f6cc1f0c37bad84022--gorgeous-choux-f2857d.netlify.app>
- **TIK-TOK pets selection:** Implemented tiktok website using FLEXBOX/HTML/CSS to display the components on the frontend. Built pagerank algorithm to select the most liked video from the users using JS, SQLITE3, and TIKTOK API.
- **[Publication]** Prediction for Canine-Ionized-calcium for Feline: Use of machine-learning algorithms to predict urine culture results in cats

SKILLS

- **Languages:** Python3, Python, Javascript, C++, C, SQL, SQLite, JavaScript, HTML/CSS, LaTeX, FPDF, ARCADE, Fart script, Jrepl script, reactJS, Node.JS, bootstrap
- **Technologies:** AWS, React, Flask, Pandas, Jupyter Notebook, ArcGIS, POSTGRES, Bootstrap, Python Plumber, Github, Flexbox, Mongo, neon tech, Flexbox, Machine Learning, Flask, Anaconda arcCAD, arcGIS, Mongo.DB, Slack, Asana LaTeX, HTML, Python web scraping