

GUK IL KIM

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Citizenship: United States

EDUCATION

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

Los Angeles, California

GPA: 3.35

Aug 2023 - May 2025

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

Davis, California

GPA: 3.728

Sep 2019 - Mar 2023

TECHNICAL SKILLS

- **Languages:** Languages: Python (3.x), C++, C, JavaScript, SQL, HTML/CSS, LaTeX, ReactJS, NodeJS, C/C++
- **Technologies:** AWS, React, Flask, Pandas, Jupyter Notebook, ArcGIS, PostgreSQL, Bootstrap, MongoDB, Machine Learning, GitHub, Flexbox
- **Tools:** Anaconda, ArcCAD, Slack, Asana, Python web scraping, Insomnia

EXPERIENCE

Veterinary Medicine Department

Davis, California

Software Engineer; researcher

July 2022 - Jan 2024

- **Machine Learning for Feline UTI Prediction:** Independently developed and iteratively refined a machine learning model to predict Feline Urinary Tract Infections, achieving an initial accuracy of 82%. Through diligent research and application of novel classification techniques, enhanced the model's AUC performance to 90%, setting a new standard for predictive diagnostics in veterinary medicine.

Utilities and Headquarters

Davis, California

ArcGIS Student Inspector engineer

July 2022 - Aug 2023

- **Automation of Data Integrity Checks:** Developed an automated script to meticulously filter through 15,000 ARCADE apj files, effectively reducing error rates by 99%. This endeavor not only showcased my proficiency in scripting and data management but also significantly elevated the operational efficiency and data integrity for campus-wide utility mapping projects.

CodeLab

Davis, California

Full stack Developer

Aug 2020 - Mar 2021

- **Website Development & Market Impact:** Instrumental in the complete overhaul and redevelopment of the CodeLab website, employing ReactJS and MongoDB amongst other modern web technologies. My leadership in this project resulted in a substantial 70% increase in new client acquisition, manifestly demonstrating the direct impact of technical excellence on business growth.

Libretxt

Davis, California

Automation Developer

Dec 2020 - Sep 2021

- **Innovation in Educational Resources:** Conceived and executed a project to transform physical textbooks into accessible online resources, incorporating HTML for the digital presentation. My work facilitated a seamless educational experience for thousands of UC Davis students, particularly in Mathematics, where the Libretxt I developed became a critical learning tool.

LEADERSHIP EXPERIENCE

USAF-519 | Team Lead

Los Angeles, California

- Coordinated team efforts in developing low-cost, high-accuracy prototype models for United States Air Force base test flight engineers, demonstrating strong leadership and project management skills.

Twin Rivers Unified School District | Full Time Instructor

Sacramento, California

- Implemented effective learning and safety strategies for K5 kindergarten students, showcasing the ability to lead and educate in diverse environments.

PROJECTS / PUBLICATIONS

- **Geospatial Data Handling:** Conducted advanced spatial queries and visualizations to enhance data interpretation and decision-making processes.
- **Hands Together Website Revamp:** Led a comprehensive website overhaul, integrating new features for enhanced user engagement and accessibility.
- **TIK-TOK Pets Selection:** Developed a web platform utilizing Flexbox, HTML/CSS, and a machine-learning-based algorithm for dynamic video content curation.
- **Publication:** Co-authored research on the use of machine-learning algorithms for predictive analytics in veterinary medicine, focusing on Canine-Ionized-calcium predictions for felines.