








GUK IL KIM

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Skills

Languages: Python (3.x), JavaScript, C++, C, SQL | **Frameworks & Libraries:** React, Node.js, Express, Flask
Databases: SQLite3, MongoDB, NoSQL, PostgreSQL | **Tools:** Git, Jupyter Notebook, Pandas, Anaconda, ArcGIS, Google Earth Pro, Insomnia, ArcCAD | **Other:** Machine Learning (classification, regression), Full Stack Development, Algorithms, SEO

Experience

Development Lead Teamlab.media Los Angeles, CA, USA 02/2024 - Present

- Led the development of a B2B website for the ShopGirly wholesale brand, integrating FashionGo API with HTML/SCSS to enhance functionality.
- Spearheaded SEO and traffic improvement strategies, leveraging data-driven techniques to boost online visibility and achieve a **20% increase** in organic traffic.
- Developed and managed the domain hosting for TeamLab.media, showcasing expertise in full-stack web development and project management.

Software Engineer & Researcher School of Veterinary Medicine Dept Davis, CA, USA 07/2022 - 01/2024

- Developed a machine learning model using logistic regression for predicting Feline Urinary Tract Infections with **90% AUC**; engaged extensively with academic literature to enhance model accuracy.
- Created the Lepto website to assist veterinarians in disease detection, demonstrating a commitment to practical and innovative technological applications.

Automation Engineer Utilities Headquarter Davis, CA, USA 07/2022 - 08/2023

- Engineered a sophisticated Python automation script that scrutinized and validated over **15,000 ARCADE apj files**, reducing error rates by **99%** and ensuring greater data integrity for campus-wide utility mapping.
- Designed automation scripts improving data integrity and operational efficiency, which are crucial in large-scale technical environments.

Full Stack Developer CodeLab Davis, CA, USA 08/2020 - 03/2021

- Led the redevelopment of the CodeLab website using React and Node.js, significantly enhancing user interaction and modern web standards.
- Demonstrated leadership and technical prowess, resulting in a **70% increase** in client acquisition by enhancing the site's performance and engaging design.

Education

University of Southern California , M.S. in computer science GPA: 3.51	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

Mentorship

- **Founder** (Apr 2024 - Present): Founded Daniel Kim Solution, demonstrated entrepreneurial spirit and technical expertise in creating scalable web solutions.
- **Drone Coding Instructor** (Apr 2024 - Present): Developed a Python curriculum for K-8 students, demonstrating leadership in educational settings.
- **Team Lead, Sponsored by U.S. Air Force** (Jan 2024 - May 2024): Led development projects, showing capability in team coordination and project management.

Projects

- **Lepto-classifier Website / Publication [expected 2025]**: Developed a machine learning model to classify leptospirosis in dogs based on health data, including breed, weight, and diagnostic tests. Utilized predictive analytics to enhance veterinary diagnostics by differentiating between valid and invalid cases with high accuracy. Implemented the solution using advanced data analysis and model optimization techniques.
- **Video Player**: Developed a program that identifies the source and starting point of a video clip with audio from the database.
- **Geospatial Data Handling**: conducted advanced spatial queries with KNIME and visualizations to enhance data interpretation using Google Earth Pro.
- **TeamLab.media Website**: Led development of TeamLab website was developed to showcase creative digital solutions, focusing on web design, branding, and innovative project execution for clients.
- **Automation shell script**: Developed tailored automation script to fix 1.2 million APJ files used on ArcGIS server, significantly streamlining maintenance processes and enhancing system efficiency.
- **Tik-Tok Pet Selection Algorithm**: Implemented user favorite video selection based on viewed count by integrating the TikTok API.
- **React Water Backend**: Developed a Node and Express server to handle AJAX requests for displaying the water level of a dam.