GUK IL KIM

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U.S. CITIZEN

Education

University of Southern California

Aug 2023 - May 2025

Master's of Science in Computer Science (GPA: 3.61)

Los Angeles, CA

• Coursework: Database Systems, Multimedia, Algorithms, Information Retrieval, Machine Learning, Deep Learning

University of California, Davis

Sep 2019 - Mar 2023

Bachelor's of Science in Computer Science (GPA: 3.73)

Davis, CA

Coursework: Algorithms, Data Structures, Network, Operating Systems, Full Stack Development, API Development

Experience

CoSignOn Dec 2024 - Present

Software Engineer Intern, Software Team

Los Angeles, CA

- Automated a 7-day backup rotation system on Linux by architecting Python scripts leveraging OS features and rsync, which ensured real-time collaboration, production integrity, and time management through CI/CD with Git/GitHub
- Implemented a full-stack graph visualization app with FastAPI and React Chart, streamlining data updates every 3 seconds to auto-update graphs, flagging disks exceeding backup times, and reducing manual error detection in Linux
- Developed a GitHub API-based merge request automation script that takes user input parameters and generates merge requests streamlining the GitLab workflow by eliminating the need for manual web portal interactions.

Teamlab.media Feb 2024 - Jan 2025

Full-Stack Developer, Technical projects lead

Los Angeles, CA

- Managed development of a B2B wholesale platform with GraphQL for Stencil API access, implemented CI/CD with Git, and utilized parallel development to accelerate delivery, providing the platform to the client within 4 months
- Developed a custom ETL script for bulk product imports, enabling feature matching and support for product variations, resulting in automated backups across 70,000+ products and improved operational efficiency
- Optimized display, authentication, and checkout systems as part of maintenance support and customer experience

School of Veterinary Medicine, UC Davis

Jul 2022 - Jan 2024

Software Developer, Lepto-classifier team

Davis, CA

- Achieved 70% accuracy and 81% AUC in Canine Classification for canine patients by filtering dataset categories and refining feature selection to optimize model inputs, improving logistic regression performance and reliability
- Fixed model output by debugging misconfigured sex-values on backend of lepto-classifier
- Integrated the Lepto-classifier ML model with a Flask API to enable real-time predictions through a web interface, validating functionality by testing user input flow and ensuring accurate output generation

Utilities Headquarter, UC Davis

Jul 2022 - Aug 2023

Automation Engineer, ArcGIS Inspection team

Davis, CA

- Reduced manual labor and minimized errors by creating a PHP script with regex string matching to validate 15,000+ ARCADE APJ file paths, automatically correcting mismatches to valid paths and streamlining parallel production
- Mitigated risks to UC Davis students by leading infrastructure inspections, utilizing Python to develop ArcGIS portfolios and proposals for the departmental board, ensuring informed decision-making

Projects

Shopgirly Wholesale Platform | JavaScript, Stencil API, XML, HTML/CSS, Git, Github, Big-Commerce, GraphQL

- Developed a product display slider, enabling users to preview top sellers, featured, and new products
- Integrated Venmo payments by modifying the Stencil Checkout SDK and configuring the payment gateway

Feline UTI Prediction (ML Research) | Python, Scikit-learn, ExtraTreesClassifier, PyCaret, Pandas, Matplotlib

- Engineered key features (protein, glucose, WBC, RBC, pH) to optimize accuracy and assess diagnostic impact
- Evaluated multiple models for performance comparison, used ExtraTreesClassifier to achieve 80.48% AUC with 0.68% higher accuracy, and documented findings in a technical report for future ML publication
- Conducted comparative model evaluation, refining decision boundaries and improving sensitivity and specificity

Technical Skills

Languages: Python 3.0 (Expert), HTML/CSS (Expert), JavaScript (Professional), C++ (Prior Experience), C (Prior Experience) Libraries/Frameworks: React.js, Flask, Django, Node.js, Bootstrap, Flex, Grid, Pandas, Numpy, scikit-learn Tools: Git, Github, GitLab, Docker, Anaconda, Jupyter Notebook, Insomnia, Postman, Virtuoso, Linux (CLI, Bash), Vim Databases: MySQL, SQLite3, PostgreSQL, MongoDB