Sujun Kim

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EDUCATION

California State University, Long Beach   Long Beach, CA
Bachelor of Science in Computer Science   May 2025

Projects

Color Sensor Android Application
- Implemented a CameraX-powered color detection system in **Kotlin**, enabling **fast and accurate real-time RGB value extraction** for use in paint preview simulations
- Built a custom color search tool leveraging **Google Custom Search API** with **OkHttp, JSON parsing**, and domain filtering to dynamically fetch paint brand results.
- Implemented **Firestore CRUD** operations to manage **favorite colors, friends, and friend requests**, including real-time updates and validation.
- Optimized app responsiveness by offloading API requests (OkHttp + Google Custom Search) to background threads and updating UI asynchronously.
- Developed interactive **Android UI** components such as dynamic **color swatches, reorderable favorites, pop-up dialogs, and clickable search results, enhancing user engagement**.

optimizeMe
- Simulated in-game item enhancements using **JavaScrip**t, performing **complex probabilitie**s to statistically analyze outcomes and **optimize strategies**.
- **Visualized simulation results** dynamically with **graphs**, showing expected stat gains, success probabilities, and cost distributions.
- Developed interactive **frontend** with **HTML, CSS, and JavaScript** for real-time user input and responsive feedback.

Weather Prediction Using Machine Learning
- Developed and trained **machine learning models** (Decision Trees, SVM, MLP, Gaussian Naive Bayes, Random Forest, Logistic RegressionCV) to predict the weather using a decade's worth of Australian weather data.
- **Preprocessed** a 10-year Australian weather dataset using Pandas , **handling missing values** and **encoding categorical** variables for **model readiness**.
- Using **Matplotlib**, analyzed each model by **calculating accuracy, classification report, and confusion matrix**, building a model with **accuracy of 85**%.

EXPERIENCE

Hanshin Pocha.   Rowland Heights, CA
Server/Cashier   *Augst 2021 - April* 2025
- Trained new team members to provide exceptional customer service and operate efficiently under pressure, resulting in faster service times and higher customer satisfaction
- Implemented improvements to the POS system by creating and categorizing menu items, significantly reducing order entry time and improving accuracy.
- Recognized in multiple Yelp reviews for outstanding service and hospitality, contributing to the restaurant's strong online reputation.

Technical Skills

Languages: Python, JavaScript, Kotlin, Java, C++, Java.
Frameworks & Libraries: Scikit-learn, TensorFlow, React, Node.js, GoogleCustomSearch, React.
Tools & Platforms: Google Cloud Platform, Android Studio, Git, Visual Studio, Jupyter Notebook.
Databases: MySQL, MongoDB, NoSQL, Firebase
Operating Systems: Windows, Linux
Interests: Web/mobile app development, exploring AI ethics, weightlifting and nutrition, anime, and gaming.

Certification

Introduction to AI(google) **:** 10/2025
Discover the Art of Prompting(google) 10/2025
ACE Certified Personal Trainer : 02/2020 ~ 02/2022