

Kole Kikuta

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EDUCATION

University of California, Santa Barbara - *Bachelor of Science in Computer Engineering*

EXPERIENCE

Full Stack Developer

University of California, Santa Barbara Capstone Project – Santa Barbara, California

August 2024 – March 2025

React | Express.js | Google Firebase | Google Gemini | OCR

- Built LeaseMate, a full-stack web app that assists first-time renters by extracting and summarizing lease documents using OCR and Gemini-powered natural language processing
- Implemented pagination in the OCR processing workflow, reducing peak memory usage by 40% and improving processing speed by 35% on multi-page lease documents
- Increased lease comprehension by 60% (based on user feedback) by generating plain-language summaries of complex clauses, reducing back-and-forth communication with property managers by 40% and enabling renters to find answers to common questions 2x faster
- Led feature development within a Scrum-based Agile workflow, using Trello for sprint planning and Git/GitHub for version control, including pull requests and code reviews to deliver functional code on schedule
- Presented at the UCSB Computer Science Capstone Competition, earning 3rd place out of 10+ teams based on technical execution, design, and social impact

Systems Support Engineer

Genius Sports – Los Angeles, California

August 2024 – February 2025

Grafana | Prometheus | AWS EC2/S3 | AWX | Linux CLI

- Collaborated with engineering and operations teams to triage and resolve high-priority incidents, contributing to a 25% reduction in average resolution time (MTTR) over 6 months
- Developed and maintained more than 30 custom Grafana dashboards and alerts, enabling real-time monitoring of critical services and increasing incident visibility
- Investigated and resolved failures in AWX job executions and AWS infrastructure by analyzing system logs and service metrics, reducing recurring deployment issues by 30% and ensuring production stability

Freelance Web Developer

Terasaki Budokan – Los Angeles, California

June 2024 – September 2024

HTML/CSS

- Designed and implemented full-site UI/UX improvements, focusing on mobile responsiveness and SEO performance
- Contributed to a 200% increase in web traffic and longer average session durations through design and usability enhancements

Information Technology Intern

Karli Institute for Theoretical Physics – Santa Barbara, California

October 2022 – June 2025

- Installed, maintained, and repaired hardware/software across networks, servers, and workstations for 40+ staff members
- Operated Audio-Visual systems for globally streamed academic conventions and events

PROJECTS

NBA Fantasy Prediction App – Creator

June 2025

Python | Flask | HTML/CSS | scikit-learn | NBA API | SQLite

- Designed and implemented a Flask-based backend to automate daily data collection, preprocessing, and predictions, served to a responsive front end via REST API, deployed live version to Render
- Selected a Random Forest model after evaluating multiple algorithms based on lowest Root Mean Squared Error (RMSE) during cross-validation, achieving a 4.2 RMSE and 15% improvement in prediction accuracy over baseline linear models
- Planned upgrades include Firebase integration for user authentication and Firestore as a scalable alternative to SQLite

SKILLS & INTERESTS

Frontend: JavaScript (ES6+), React, React Native, HTML5, CSS3, Tailwind CSS

Backend: Python, Flask, Node.js, Express.js, Java, C++, C, REST API Development, Nginx, SQLite

Developer Tools: Git, GitHub, Vim, npm, pip, Linux (Bash)

DevOps/Deployment: AWS (EC2, S3), Vercel

Other Technologies: Agile Methodology, Scrum, TDD, Trello, Firebase (Auth, Firestore)