Kole Kikuta

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EDUCATION

University of California, Santa Barbara — Expected Graduation: June 2025

Candidate for Bachelor of Science in Computer Engineering

Coursework Taken:

Data Structures and Algorithms	Analog and Digital Circuits and Systems	Digital Design Principles
Object-Oriented Programming	Artificial Intelligence and Machine Learning	Advanced Applications Programming
Deep Learning	Digital Image and Video Processing	Sensor and Peripheral Interface Design

EXPERIENCE

Web Development Intern

Terasaki Budokan – Los Angeles, California, USA — June 2024 – September 2024

- Responsible for website rebuild for elevated user experience and increased engagement using front-end programming languages, including HTML and CSS
- Collaborated with management and user test groups to identify UI/UX improvements that resulted in a 500% increase in web traffic

Information Technology Intern

Kavli Institute for Theoretical Physics – Santa Barbara, California, USA — October 2022 – Present

- Responsible for installing, maintaining, and repairing hardware and software components of network, server, and computer systems
- Responsible for troubleshooting and resolving computer, network, and printing issues for staff of 40+ members
- Operated Audio-Visual systems for internationally broadcasted conventions and discussions

Executive Board Member

UCSB Nikkei Student Union – Santa Barbara, California, USA — October 2021 – June 2024

- Collaborated with board members to organize club meetings, social events, fundraisers, and intramural sports teams
- Organized first intercollegiate fundraiser basketball tournament, raised over $1000
- Coordinated social media outreach and marketing for annual fundraiser cultural production

PROJECTS

NBA Fantasy Prediction App – Creator — July 2022 – Present

- Implemented a data analysis app which scrapes individual player stats from official NBA website, then calculates predicted future fantasy value using least squares regression line projections and exports list of players sorted by predicted fantasy value to .csv file
- Utilized Python, Hashmaps, Pandas Dataframes, NBA API, and Github
- Planning on moving to full stack web application to store past trendlines in cloud storage

STM32 Nucleo Board Garage Door Opener — February 2024 – March 2024

- Led a team in development of an advanced embedded systems project utilizing STM32 Nucleo board, stepper motor, temperature and acceleration sensors, and Bluetooth communication to create a garage door opener capable of real-time data acquisition and processing
- Utilized C programming language, UART, I2C, and SPI communication protocols to interface with peripheral devices
- Optimized system for real-time data collection and processing by using non-blocking programming techniques and Direct Memory Access

Legacy Web Application – Team Lead — February 2024 – March 2024

- Spearheaded the expansion of an existing web application by leading team stand-ups and communication, utilizing Agile workflow, and fostering a collaborative team culture
- Gained experience with Javascript and React framework frontend, Java and Spring framework backend, CRUD API operations, and conventional testing practices

RISC-V Microprocessor Design and Simulation — September 2023 – November 2023

- Designed single cycle, multi-cycle, and pipelined iterations of a RISC-V microprocessor using Verilog and RISC-V instruction set architecture
- Implemented ALU, memory read/write, instruction decoding, data forwarding, and hazard detection functions
- Performed comprehensive testing using Modelsim simulation software and analyzed microprocessor throughput and resource utilization

SKILLS & INTERESTS

Technical

- C++, Python, Java, HTML/CSS, JavaScript, Git, C, UNIX, Verilog, RISC-V Assembly Language, Command Line Interface

Soft Skills

- Communication, Problem-solving, Teamwork, Time Management, Strong Work Ethic

Interests

- Basketball, Golf, Djing, Music Production