# AKIRA SUZUKI

714-204-5960 | asuzuki100@ucla.edu
www.linkedin.com/in/akira-suzuki- | https://github.com/asuzukii

## EDUCATION

**University of California, Los Angeles (UCLA)**
*B.S., Electrical Engineering Major with Specialization in Computer Science* ***(Major GPA: 3.80)*** *2018 - 2022*
**Relevant Courses:** Data Structures, System and Signals, Algorithms, Probability and Statistics, Computer Organization, Machine Learning, Data Mining, Computer Vision, Applied Interactive Machine Learning
**Activities:** Visual Machines Group, IEEE at UCLA, HKN Honors Society, Japanese Student Association, Club Kendo

## TECHNICAL SKILLS

**Software:** Python, C/C++, JavaScript, C#, MatLab, HTML/CSS
**Software Packages/Tools:** Pandas, PyTorch, Tensorflow, sklearn, Selenium, React, Typescript, Node.js, git, mongoDB
**Spoken Languages:** Fluent in Japanese (Native), Intermediate in Spanish

## WORK EXPERIENCE

**Cepton Technologies** - *Software Engineer* *August 2022 - Present*
- Implemented real time ground detection/lane detection using Python/C++; contributed to 10x speed up of algorithms
- Worked on static perception (tracking objects in the scene) and logging performance to pinpoint bottlenecks
- Improved the 3D rendering demonstration software using TypeScript and WebGL
- Planned out and added a new, fully integrated corner view feature using React and Node

**Visual Machines Group** - *Undergraduate Researcher* *March 2020 - Present*
- Analyzed state of the art deraining models by recreating models from papers in PyTorch, compared results via tensorboard
- Co-authored *"Not Just Streaks: Towards Ground Truth for Single Image Deraining"* (ECCV 2022)
- Translated MatLab to Python code in order to foster computational speed up with GPU
- Prototyped cameras on protective wear incorporating hyperlapse stability software; created a video presentation, pitched the product to the director board of UCLA health
- Launched and maintained the lab website by utilizing jekyll and designing custom web pages from the framework

**Dip Corporation** - *Data Science Intern* *September 2020- March 2021*
- Researched and implemented NLP recommender systems for Japanese text
- Utilized seaborn package to visualize integral trends to non-technical team members
- Created a forecasting model with the internal sales data using sklearn that achieved a 85% accuracy rate

**ProGuides** - Software Engineering Intern *January 2019 - September 2019*
- Used Python/Selenium to construct test suites on web page inputs
- Scraped web pages for company research
- Implemented A/B testing in order to statistically validate changes to the product website

## PROJECT EXPERIENCE

**JSA Club Website** (Utilized Node.js, mongoDB, HTML, CSS)
- Organized and started up the website team, directed tasks of UI/UX design to other team members
- Developed backend of a website using Node.js and mongoDB to interact with and store each user's data

**UCLA IEEE QuadCopter** *(Utilized C/C++, Eagle CAD)*
- Used C/C++ and the Nucleo controller board to construct a functional I2C communication system for motors
- Designed circuitry and PCB for a quadcopter system with functional PID to dive deeper into embedded systems

## LEADERSHIP EXPERIENCE

**Japanese Student Association** - *Career Officer, Treasurer* *September 2018 - Present*
- Communicated with major companies to hold career events for JSA members
- Hosted career workshops to appraise members' resumes and guide through the steps of applying to internships/jobs
- Managed an annual budget of $15,000; authorized and tracked financial transactions for events

**UCLA Club Kendo Team** - *Vice President* *September 2018 - Present*
- Planned and hosted the largest intercollegiate Kendo competition outside of Japan with more than 500 players
- Led and mentored new students, established detailed workout menus catering to the pandemic

## Awards and Accomplishments

- **Correlation-One Invitational:** placed top 20 in an invitation only (top 10% of applicants) game algorithm competition
- **Louis Levoy Engineering Scholarship (2021)**
- **3x Dean's Honor's List (Fall 2019, Spring 2020, Fall 2020)**
- **Bob and Judy Green Scholarship (2020)**