

# Aanand Kainth

San Jose, CA | +1 (408) 480-2845 | aanand@akainth.me

## EDUCATION

---

B.S. - Computer Science (3.92) w/ Cum Laude @ **University of California, Santa Cruz**

Jun 2023

## WORK EXPERIENCE

---

### Software Development Engineer Intern @ Amazon

Jun 2023 – Sep 2023

### Software Development Intern @ Plume Design Inc.

Jun 2021 – Sep 2021

- ◆ Developed 12+ REST APIs for Loopback (Node.js) microservice to drive new family-safety features
- ◆ Defined 4 GRPC endpoints and the corresponding Protobuf schemas for type-safe invocations between microservices

### Fellow, Facebook AI Research (VISSL) @ Major League Hacking

Feb 2021– Apr 2021

- ◆ Refactored Python 3 logging system, resulting in 30% less code churn in pull requests
- ◆ Integrated square-root learning rate scaling to achieve faster convergence for parallel workloads

### Fellow, BentoML @ Major League Hacking

Jun 2020– Sep 2020

- ◆ Coordinated with maintainers to design a major public interface refactoring, resulting in 40% less code required for the average feature addition
- ◆ Authored support for PySpark MLlib, resolving an issue with seven supporters

### Software Development Intern @ Plume Design Inc.

Jun 2019 – Sep 2019

- ◆ Overhauled charting system with Chart.js to reduce load times by 20%
- ◆ Migrated AngularJS 1.x to Angular 8
- ◆ Added support for CORS headers configured via Zookeeper

## PROJECTS

---

**Concept** - Brought to life a Google Docs add-on to analyze essays, contextually reporting 8+ metrics such as sentiment, objectivity, theme, and document flow

**Tiny ImageNet 100** - Earned first place among 40+ students; Trained a neural network to achieve 89% accuracy on a subset of the Tiny ImageNet dataset using transfer learning with Swin-L transformers

**HTTP/1.1 Web Server** - Created a multi-threaded HTTP/1.1 web server in C using POSIX primitives and pthreads; Allowed clients to submit files as large as 16 gigabytes, and properly handled concurrent and stagnant writes

**Ambient** - Authored an IntelliJ IDEA plugin to replace 12-yr old Eclipse-based course infrastructure for WebCAT; Adopted by 3+ schools and achieved 900+ downloads without advertising in 2 years

## ACTIVITIES

---

### President @ University Rocket Team

- ◆ Managed a team of 30 undergraduates in the creation of a \$5,500 rocket project over ten months
- ◆ Led the team through its first complete NASA University Student Launch competition cycle in 5 years

### Member, Vice-president @ University Rocket Team

- ◆ Directed subteam of 7 students in the creation of an aerobraking system
- ◆ Analyzed and produced a flight path prediction algorithm with an accuracy within 10 ft

## ADDITIONAL

---

**Technical Skills:** Python 3, HTML/CSS/JS, Node.js, React, Vue, Java, Kotlin, C, Keras/Tensorflow/sklearn, pandas, numpy, OpenCV, Google Cloud, SQL, Android

**Certifications & Training:** Verified by LinkedIn for Machine Learning, React, Kotlin, Java, CSS, Git, and Node.js

**Awards:** Eagle Scout with Bronze Palm, Dean's List

**Relevant Courses:** Computer Vision, Applied Machine Learning, Data Structures & Algorithms, Electrical Engineering, Mechanical Physics, Multivariable Calculus