

# Aanand Kainth

SF Bay Area | +1 (408) 480-2845 | [aanand@akainth.me](mailto:aanand@akainth.me) | [LinkedIn](#)

## EDUCATION

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**BSc in Computer Science @ University of California, Santa Cruz** Oct 2020 - Jun 2023

GPA: 3.93 (Magna Cum Laude), Dean's List, President of UCSC Rocket Team

Relevant Coursework: Applied Machine Learning, Computer Vision, Computer Systems Architecture, Data Structures & Algorithms, Web Applications, Electrical Engineering

## SKILLS

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**Programming Languages:** Python, JavaScript (JS), TypeScript (TS), React, Kotlin, Java, Go, HTML

**Databases:** PostgreSQL, PGVector, MongoDB, Firestore, SQL, NoSQL

**Tools:** AWS, Google Cloud Platform, Docker, Git, Linux/Unix

## EXPERIENCE

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**Software Engineer Intern @ Amazon Web Services (AWS)** Jun 2023 – Sep 2023

- Prototyped a new service backend to support OpenTelemetry Layer Protocol (OTLP) using Golang and Docker
- Authored an iOS demo using Swift to demonstrate data-plane's support for mobile apps, opening to 217% customers
- Produced a scalable (1k TPS) architecture built upon AWS ECS, ALB, VPC, and IAM

**Software Engineer Intern @ Plume Design Inc.** Jun 2021 – Sep 2021

- Developed 12+ REST HTTP APIs backed by MongoDB in a distributed Node.js microservice, tested with Sinon
- Standardized Protobuf schemas and endpoints to gRPC to reduce service load and latency

**Fellow, Facebook AI Research (VISSL) @ Major League Hacking** Feb 2021 – Apr 2021

- Identified and fixed long-standing bug, repairing the performance and consistency of 20+ models
- Implemented square-root LR scaling for ~10% faster convergence for parallel workloads
- Revamped event system to pluggable storage, including Tensorboard, HiPlot, and 2 more integrations

**Fellow, BentoML @ Major League Hacking** Jun 2020 – Sep 2020

- Collaborated with maintainers to refactor the public interface, reducing average size of PRs by ~40%
- Augmented image support with multi-image inputs via `multipart/form-data`
- Integrated PySpark ML, to support 1k+ users deploying 20+ models quickly and scalably

**Software Engineer Intern @ Plume Design Inc.** Jun 2019 – Sep 2019

- Overhauled front-end data rendering using Chart.js, reducing load times by 0.6s, saving engineers 10 hrs / month
- Migrated an 50k SLOC AngularJS application to Angular 8 over the course of 1 month, and upgraded to ES6
- Developed REST HTTP endpoints to support IPv6 with Loopback, and tested using Sinon

## ADDITIONAL EXPERIENCE

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**President @ UCSC Rocket Team** Oct 2020 - Jun 2023

- Coordinated 26 students to build & launch a \$5,500 rocket, placing 26th in the NASA University Student Launch
- Devised and simulated a real-time flight path prediction algorithm with an accuracy of 10 ft with CircuitPython

## PROJECTS

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[akainth015/beefystew](#): An AI-enforced hashtag-centric social media platform

- Built a full-stack service to filter images categorized under a hashtag with 90% accuracy in under 30 seconds using a fine-tuned computer vision model, Tensorflow, and py4web (Django-like framework)

[akainth015/concept](#): Valuable insights to take control of your writing

- Authored a Google Docs add-on to analyze writing through the Google Natural Language platform and offer 8 metrics and insights about sentiment, monotony, salient entities and more using React

[akainth015/EyeGuard](#): Take care of your eyes by getting reminders to rest them

- Produced a Windows app to enforce recommendations by optometrists using Windows App SDK and C#
- Grew to 1.3k daily active users within 4 months