

Aanand Kainth

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EDUCATION

University of California, Santa Cruz

Bachelor of Engineering

Major in Computer Science;

Cumulative GPA: 3.92/4.0; Dean's List 2020-2022

Relevant Coursework: Software Engineering; Data Structures and Algorithms; Machine Learning; System Design; Mechanical Physics, Electrical Physics; Electrical Engineering

Santa Cruz, CA

Expected Jun 2024

WORK EXPERIENCE

Plume Design, Inc.

Software Development Intern

Palo Alto, CA

Jun 2021– Sep 2021

- ◆ Developed 12+ REST APIs for Loopback (Node.js) microservice to drive new family-safety features
- ◆ Wrote unit tests with Sinon to ensure technical correctness and consistency
- ◆ Created 3 Braze email campaigns to onboard new customers and introduce the company's services
- ◆ Defined 4 GRPC endpoints and the corresponding Protobuf schemas for type-safe invocations between microservices

Major League Hacking

Fellow, Facebook AI Research (VISSL)

Remote

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 multi-GPU workloads
- ◆ Developed live monitoring for training via Tensorboard to rapidly investigate the effectiveness of hyperparameters

Major League Hacking

Fellow, BentoML

Remote

Jun 2020– Apr 2020

- ◆ Designed a significant 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

UNIVERSITY PROJECTS

HTTP/1.1 Web Server

Apr 2022 - Jun 2022

- ◆ 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 managed concurrent writes or stagnant writes

Tiny ImageNet 100

Jun 2022

- ◆ Trained a neural network to achieve 89% accuracy on a subset of the Tiny ImageNet dataset
- ◆ Set up a Google Cloud Virtual Machine and GPU to speed up training by 66%
- ◆ Awarded first place in the class of 40+ students in a Kaggle competition for accuracy

Ambient

2020

- ◆ Authored an IntelliJ IDEA plugin to replace outdated Eclipse-based course infrastructure for WebCAT
- ◆ Over 700+ downloads and a 5-star rating, and adopted by several schools and universities

ACTIVITIES

Rocket Team

Santa Cruz, CA

President

Oct 2020 – Present

- ◆ Started as a member, became vice president in 2021, and took over as president in 2022
- ◆ Managed a team of 30 in the creation of a \$3500 rocket project over ten months
- ◆ Awarded 4th place in the NASA Student Launch competition in 2021
- ◆ Led a team of 7 in the creation of an aerobraking system
- ◆ Produced a flight prediction algorithm with an accuracy within 10 ft

ADDITIONAL

Technical Skills: Advanced in HTML/CSS/JS, Node.js, Java, Kotlin, Python 3, C; Proficient in C++

Languages: Fluent in English, proficient in Spanish, and conversational in Hindi

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

Awards: Eagle scout (2020), Top 3 in Los Altos Hacks 2019