Abhinav Anand

408.203.9582 | linkedin.com/in/abhi-n-anand | abhinavanand@berkeley.edu

EDUCATION

University of California, Berkeley　　　　　　　　　　　　　　　　**Aug 2017 – May 2021**
B.A. Computer Science and Public Health　　　　　　　　　　　　　　　　　　*Berkeley, CA*

Relevant Coursework: Data Structures, Algorithms, AI / ML, Databases, Networking, Computer Architecture
Honors: Dean's List (4x), Cal Alumni Leadership Award, PWC Case Competition (2nd Place)

EXPERIENCE

Citadel - Crude Trading Desk　　　　　　　　　　　　　　　　　　**Nov 2022 - Present**
Quantitative Software Developer　　　　　　　　　　　　　　　　　　　　　*Chicago, IL*

- Developing research infrastructure leveraging **Python** and **GCP** for data analysis and quantitative modeling
- Engineered distributed demand forecasts with intelligent caching for a 7x speedup and 80% cost reduction
- Designed key analytical layer using **Mongo**, **Spanner**, and **BigQuery** to efficiently query terabytes of data
- Created interactive dashboards using **Plotly**/**Flask** for dissecting model performance and visualizing regional balances to highlight arbitrage opportunities and fundamental imbalances in supply and demand
- Strengthen system resilience through collection of crucial operational metrics and performance optimizations
- Developed and maintained a nowcasting model for U.S. NGL production, improving prediction accuracy

Amazon Lab126 - Astro　　　　　　　　　　　　　　　　　　　　**Aug 2021 - Nov 2022**
Software Engineer　　　　　　　　　　　　　　　　　　　　　　　　　*Sunnyvale, CA*

- Redesigned and implemented a new home screen application in **Java**/**Kotlin** for all production devices, resulting in an 18% reduction in the APK footprint and the elimination of cross-organization dependencies
- Created an on-device to cloud metric collection pipeline to capture the consumer perceived defect rate in autonomous behavior and to identify key features in the upcoming annual business roadmap

Amazon Lab126 - Astro　　　　　　　　　　　　　　　　　　　　**May 2020 - Aug 2020**
Software Engineering Intern　　　　　　　　　　　　　　　　　　　　　*Sunnyvale, CA*

- Designed and implemented a framework to triage bugs from **ROS** logs through LSTM NNs in **Keras**
- Built scalable ML pipeline with **AWS ECR/ECS**, enabling distributed model training and inference
- Drove cross-team alignment for future integrations and hyperparameter tuning requirements

LEADERSHIP

Berkeley Business Society　　　　　　　　　　　　　　　　　　　　**Jan 2018 - May 2021**
Internal Vice President　　　　　　　　　　　　　　　　　　　　　　　*Berkeley, CA*

- Led strategic direction and operations for 60+ member organization, resulting in record $80,000 revenue
- Optimized $35,000 budget across talent acquisition, project execution, and professional development

Project Manager
- TED Conferences - Directed 6-member consulting team to redesign the UI/UX of TED's digital platform
- United Airlines - Led a 7-person team conducting market research and SWOT analysis of product offerings

University of California, Berkeley Computer Science　　　　　　　　　**Jan 2019 - May 2021**
Academic Intern and Tutor　　　　　　　　　　　　　　　　　　　　　　*Berkeley, CA*

- Conducted review sessions, ran labs and held office hours for Data Structures and Computer Architecture

PERSONAL

Projects: Publius (Audio Social Media, **SwiftUI**), Cloth Simulation (**C++**), Encrypted File Sharing (**Golang**)
Interests: Day Hikes, High Fantasy Novels, Jigsaw Puzzles, Spikeball, Catan, and Golden Retrievers