

Abhinav Anand

abhinavanand@berkeley.edu | (408) 203-9582
200 E Illinois Street #1604, Chicago IL 60611

EDUCATION

University of California, Berkeley

Berkeley, CA

B.A. Computer Science & Public Health – GPA 3.72 / 4.00

May 2021

Honors: Dean's List (Top 10% of College, 4x), Cal Alumni Leadership Award, PWC Case Competition (2nd Place)

Coursework: Data Structures, Algorithms, AI / ML, Databases, Networking, Graphics, Computer Architecture

PROFESSIONAL

Citadel Commodities

Chicago, IL

Software Developer, Crude Oil Trading Desk

Nov 2022 - Present

- Develop tooling, dashboards, and data lineage diagnostics that facilitate model analysis, performance profiling, and error decomposition across domestic and global analytics to streamline workflows and identify critical areas of focus
- Architected critical global demand scenario forecasting and backtesting framework, achieving an 80% reduction in costs, 7x speedup in runtime, and reduced latency in demand-sensitive updates for global analytic balances
- Designed infrastructure for linking petroleum facilities, enabling precise waterborne refinery oil demand modeling
- Built United States NGL production nowcasts to outperform vendor forecasts, resulting in a 15% reduction in errors
- Optimize model performance, manage data pipelines, and maintain system reliability across internal research platforms
- Collaborate with analysts, traders, and engineers to continuously prioritize and deliver impact to the business

Amazon

Sunnyvale, CA

Software Engineer, Amazon Lab126 (Astro)

Aug 2021 - Nov 2022

- Migrated away from cross-organization dependencies through the creation of an 18% smaller home screen application (Java, Kotlin) with novel internal APIs for internal consumers across all beta and production devices
- Created an on-device to cloud data collection pipeline for analyzing the customer perceived defect rate in the robot's autonomous behavior, which was leveraged to identify key features for the 2022 business roadmap
- Architected and executed service-to-service integrations that enabled Marketing and Product stakeholders to self-serve feature discovery content on-device without engineering resources, resulting in faster iteration and deployment cycles

Amazon

Sunnyvale, CA

Software Engineering Intern, Amazon Lab126 (Astro)

May 2020 - Aug 2020

- Designed and implemented a framework to triage ROS and Android bugs through LSTM Neural Networks (Keras)
- Automated the training and prediction cycle off-prem (AWS ECR and ECS) and generated model sensitivity reports
- Drove cross-team alignment for future integrations, data limitations and hyperparameter fine-tuning requirements

LEADERSHIP

Berkeley Business Society (Undergraduate Consulting Club)

Berkeley, CA

Internal Vice President & Consultant

Jan 2018 - May 2021

- Directed all operations for a 60+ member student organization and achieved historic record revenue of \$80,000
- Managed \$35,000 budget for recruitment, project sourcing and execution, professional development and events

Computer Science Department, UC Berkeley

Berkeley, CA

Academic Intern & Tutor, Data Structures & Computer Architecture

Jan 2019 - May 2020

- Conducted weekly review sessions, assisted students with projects and homework, helped run labs and office hours

PROJECTS

Publius (Audio-Based Social Media, iOS TestFlight Beta)

Sunnyvale, CA

- Built infrastructure for streaming user publications (AWS S3, Lambda, CloudFront) to reduce end-user latency by 30%
- Other:** Amazons Game (Java), 3D Fluid Simulation (C++), Encrypted File Sharing (Golang), Spam Classifier (Python)