Adnaan Sachidanandan

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Education

University of California, Berkeley – Computer Science, Business Administration Aug 2018 – May 2022

Relevant Coursework: Efficient Algorithms, Artificial Intelligence, Probability and Random Processes, Optimization Models in Engineering, Intro to Machine Learning, Intro to Computer Graphics

Experience

Scale AI – June 2021 - Aug 2021

Software Engineer Intern

- Developed character-level OCR model for project with key customer to predict pixel-perfect polygons with over 85% accuracy

UC Berkeley RISE Lab – March 2021 – Present

Undergraduate Researcher

- Conducting computer vision research on generating alternate vehicle trajectories based on self-driving imagery under Prof. Joseph Gonzalez

UC Berkeley CS 170 Course Staff – February 2020 - Present

Teaching Assistant (uGSI)

- Taught multiple discussion sections for over 100 undergraduate students in UC Berkeley's course on Efficient Algorithms

Apple – June 2020 - Sept 2020

Intern – Siri

- Built Siri functionality to enable emergency contact calling – released to public in iOS 14.5 – and worked on Siri functionality for RTT/TTY calling
- Worked in Swift, Objective-C, and Java across three different repos
- Interfaced with design, NL, testing, and other teams during development

VMware – May - Aug 2019

Cloud Engineering Intern

- Designed and implemented an internal system that improves the end-to-end release cycle for VMware's private cloud product
- Worked on a full-stack system with an Angular frontend, Spring/Java backend, and Postgres database/persistence

Student Organizations

Berkeley Consulting – February 2020 - Present

Project Manager, former Consultant

- Developed a vision for the future of PC gaming and planned a development prioritization for a software product in the industry
- Constructed an improved marketing strategy to physicians for a pharmaceutical manufacturer

Cal Hacks – August 2018 - Present

Director, former Tech Team Lead

- Led a team of five directors to work on the entire Cal Hacks tech suite, including the application system which supports over 5,000 applications

Awards

IEEE Upsilon Pi Epsilon Member – Fall 2019

- Top 25% of CS Students at UC Berkeley

PennApps Route | Best Google Cloud Machine Learning API Hack – Oct 2017

- Won at PennApps XVI; Project: Karo

Best Use of Expo.io – Oct 2017

- Won at PennApps XVI; Project: Karo

Top 30 at PennApps – Oct 2017

- Won at PennApps XVI; Project: Karo

Meridian Best Medicare Adherence App – Sep 2016

- Won at MHacks 8; Project: Health.me

HackingEDU 2nd Place Winner – Oct 2015

- Won at Hacking EDU; Project: HackChair.js

Selected Projects

Karo

- An automatic manga translator that uses a convolutional neural network, flood-fill algorithm, and Google services to detect and translate text blurbs

Net-Collector

- A system that enables individuals to set up probes in networks to gather internet packets for monitoring the network

Fluid Particle Simulator and Music Synthesis

- Developed an efficient simulator of fluid particle movements based on the paper *Position Based Fluids*, which runs real-time on CPU and shader computations
- Extended simulator with Max MSP to create sound synthesis based on particle collisions for realistic spatial audio and movement

Languages, Frameworks, Tools

- Languages: Java, Python, Javascript, C, C++, SQL, HTML/CSS, Typescript, Swift, Obj-C
- Frameworks/Tools: Node.js, Flask, Spring, Angular, Keras, Git, NumPy, GCP, AWS