Ajay Raj

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Education

University of California, Berkeley

B.A. Computer Science and Data Science, Aug 2016 - May 2020, Technical GPA: 4.0

– Activities & Societies: Accel Scholars, Students Association of Applied Statistics (SAAS), Upsilon Pi Epsilon (Computer Science Honor Society), Computer Science Mentors, UC Jazz

Work Experience

Stripe *August 2020 - Present*
Software Engineer, Risk Policy Engineering

Facebook *Summer 2019*
Software Engineering Intern, Instagram Ads and Commerce Quality
– Worked on a team that delivers surveys on IG and develops models to build trust and protect the overall quality of IG ads
– Part of the Personalized Ad Load (PAL) initiative, delivered a new sentiment survey on IG that receives 30K responses per day, including running budget experiments for ads auctions and performing initial data analysis on survey results
– Implemented support in surveys for displaying dynamic (retargeted) ads, thus providing improved quality for 10% of all IG ads previously unaccounted for
– Won first place at an IG Ads CodeLove event for most functions asyncified, most files type-checked on my team

Palo Alto Networks *Summer 2018*
Software Engineering Intern
– Created a backend in Java Spring Boot for a ReactJS website for the customer support team to search for information about firewalls and licenses while on service calls
– Wrote microservices using Python Tornado with a Apache Cassandra/Solr backend, deployed using Docker, Kubernetes and Istio designed to handle 60 million update requests per day (70 per second) from PANW products
– Won first place in a security hackathon (Capture the Flag) by exploiting the most vulnerabilities in a website

UC Berkeley Computer Science Department *August 2018 - May 2020*
Undergraduate Student Instructor, CS 170: Efficient Algorithms and Intractable Problems
– Taught a section of 60 students topics from the most widely taken upper division CS class at UC Berkeley

Projects

Megafind *October 2017*
A webapp that allows professors to have a live lecture session with students that provides a real-time transcription of the lecture, with relevant terms hyperlinked to external resources, and the professor's presentation parsed and converted into notes. Built using Node.js, websockets, and Google Cloud Machine Learning API. Won 1st Place Overall and Best Education Hack at Cal Hacks 4.0, the largest collegiate hackathon in the world.

Bearmax *November 2016*
A chatbot that uses IBM Watson to help the user diagnose themselves with a sickness without having to go to a doctor's office. Won Best Beginner Hack and Best Health App at Cal Hacks 3.0

Awards

1st Place Overall, Cal Hacks 4.0
1st Place, Cal Datafest 2018
Best Beginner Hack, Cal Hacks 3.0
Outstanding Achievement Award, CS Department, Gunn High School

Skills

Languages: Python, Java, Ruby, JavaScript, R, SQL, C, Scala

Applications: MongoDB, Flask, AWS, Docker, ReactJS, PyTorch, Pandas