Siddharth Bidasaria

Software Engineer

Contact

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Skills

Objected Oriented Programming

Excellent

Distributed Systems

Excellent

Software Performance Analysis and Debugging

Excellent

Web Development

Excellent

Networking + Systems Programming

Very Good

Languages

C++ / C

Excellent

Python

Excellent

Scala

Driven software engineer with 6+ years of experience developing robust code for high performance distributed systems. I'm an effective generalist with a versatile skill set in creating backend applications. Passionate about creating delightful products, making things go faster and building startups.

Experience

2020-12 - Current

Senior Software Engineer (Backend Lead)

Robinhood Markets, Menlo Park, California
Options Team: Building features for Robinhood's 6M most valuable options traders, supporting a revenue of $689M+ for 2021

- Architected, designed, led and implemented multiple large features across a full stack team of 8 engineers.
- Designed and implemented the Options Watchlist feature on Robinhood end to end. Early results show a 3% lift in converting high intent equity traders to options traders, and a 6% lift in engagement metrics with the app.
- Designed, scaled and implemented the Options Alerts feature. This processes more than 30M data points every day and can handle firing notifications at a peak rate of more than 50k/second.
- Improved the framework for downloading critical trading files from the OCC SFTP server. These files play an extremely important role in protecting the firm from financial risk. Improvements resulted in 30% improvement in download speed, and 90%+ improvement in bugs/pages resulting from this system.
- Played the role of a temporary Engineering Manager for my team for 3 months while the team's manager was away on parental leave.

2018-04 - 2020-12

Senior Software Engineer

Rubrik , Palo Alto, California
Data Archival Team: Built Rubrik's cloud-out features

- Improved Rubrik's cloud download performance by 10-15x thereby helping customers achieve dramatically faster disaster recovery times
- Helped scale one of the most critical teams at Rubrik (Cloud archival) from 3 to 9 people, supporting a 70% attach rate to all Rubrik deals and accounting for $200M+ revenue per year
- Implemented "Cloud Tiering" - a feature that

- enabled customers to intelligently utilize various tiers of storage (hot/cool/cold) to reduce cloud costs by 30%+
- Optimized download speeds from NFS locations by 3x
- Designed and implemented a metrics framework to extract and analyze very high granularity stats.
- Significantly improved the Unit Test framework and created processes to smoothly upgrade open source libraries with conflicting dependencies

2015-09 - 2018-04

Software Development Engineer 2

Citrix - HDX Graphics

- Virtualized real time desktop graphics with server accelerated distributed GPU's and a special focus on high latency and low bandwidth customer environments. Languages used: C++/C
- High DPI: Built an innovative solution to virtualizing High Res Displays while improving server scalability by 25%. OS agnostic and backwards compatible, very important for the 50%+ Citrix customers still on older Windows versions.
- Improved JPEG decoding performance by 40%. This greatly improved User experience for customers that are on low bandwidth networks.
- Won the Citrix Tech Fair 2016: Built an AR app with Google Cardboard that renders Citrix Desktops (VDA) in 3D. Enables users to simulate multiple monitors through the Cardboard, massively increasing productivity + reducing cost for hardware.

Education

2011-08 - 2015-05

Bachelor of Science

University of Illinois, Urbana-Champaign, Bachelors of Science in Computer Engineering - Champaign, IL

- Teaching Assistant for ECE 391 (Computer Systems Engineering and OS Development). Widely regarded to be the most challenging class in the undergraduate curriculum.
- Developed Linux-like OS with scheduling, multiple terminals and a read only file system.
- President of Illini Squash Club: Doubled active membership by organizing free clinics and events. 2 time winning Captain of Mid-America Collegiate JESTERS Cup held at University Club, Chicago