Archit Mishra

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Experience

Sep 2020 - Present

Amazon, Software Development Engineer.
- **Team: Secret Project**

Summer 2019

Airbnb, Software Engineering Intern.
- **Team: Payments Infrastructure**
- Built and integrated API load testing for an organization of 1000s of engineers to load test business critical and hyper-growth APIs on a quarterly basis.
- Pioneered custom load testing for user scenarios in the Payments organization that span 6 different critical Payments APIs.
- Technologies used: **Java, Python, Apache Thrift, Kubernetes, Docker, ReactJS**

Summer 2018

Facebook, Software Engineering Intern.
- **Team: Wormhole: Distributed Pub-Sub Infrastructure**
- Built and deployed a server introspection framework to hosts on a Pub/Sub distributed system that processes more than 35 Gigabytes/second or 50 million messages per second.
- Built a command line tool to self-analyze subscriber host failures and narrow failure domain by 3 times and recover from failed or stuck processing threads.
- Technologies used: **C++, Python, Apache Thrift**

Summer 2017

Facebook, Software Engineering Intern.
- **Team: MySQL Database Engineering**
- Reduced database downtime from hours to seconds on MyRocks: the Database storage engine serving 10s of petabytes of Facebook's Social Graph by implementing crash safety for auto-increment values.
- Built MySQL transaction deadlock detection and tracking which halves the time required to debug and unblock transaction deadlocks and is still in use today.
- Technologies used: **C++, C, MySQL, RocksDB**

Summer 2016

Excelfore Corporation, Software Development Intern.
- Designed, implemented, and tested a proprietary computer vision algorithm for speeding up video face detection by over 3 times on commodity hardware.
- Researched and implemented state of the art computer vision techniques to improve vehicle lane tracking accuracy by over 70%
- Technologies used: **C++, Python, OpenCV**

2016-2020

UCSD CSE Department, CS TA and Tutor.
- Graduate TA for:
  - Intro To Algorithms [CSE 101]
  - Graduate Computer Architecture [CSE 240A]
- Undergraduate Tutor for:
  - Intro to Computer Architecture [CSE 141]
  - Data Structures [CSE 100]
  - Software Engineering [CSE 110]

Skills

Languages **Java, C++, C, Python, SQL**.

Technologies **AWS, Docker, Kubernetes**.

Education

2019 - 2020

M.S. Computer Science, UC San Diego.
- Depth: Networked and Distributed Systems

2015 - 2019

B.S. Computer Science, UC San Diego.