Sid **Narayan**

SOFTWARE ENGINEER

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Education

UCLA (University of California, Los Angeles)   *Los Angeles, California*

B.S. IN COMPUTER SCIENCE   *Sep. 2013 - Dec. 2017 (Incomplete)*

- GPA: 3.6 /4.0

Experience

Amazon   *Palo Alto, CA*

SOFTWARE ENGINEER   *Mar. 2020 - Present*

- Designed and implemented a auto remediation tool to detect JVM ineffiencies in an Elasticsearch cluster and heal them.
- Overhauled our team's CI/CD pipeline by integrating our internal build system with Github Actions and Jenkins.
- Developed features for metrics gathering and aggregation frameworks.

Splunk   *San Jose, CA*

SOFTWARE ENGINEER (PLATFORM TEAM)   *Oct. 2019 - Present*

- Developed a data plane level mechanism for our data ingest service which routes datapoints matching user-defined criteria to various additional endpoints
- Implemented a new authentication service backed by a distributed cache and Kafka, removing a critical system bottleneck and reducing average case auth time from roughly 10ms to 3ms.
- Started refactoring a Java based REST API layer into distributed microservices in order to allow our system to scale horizontally.

SignalFx   *San Mateo, CA*

SOFTWARE ENGINEER (METADATA/APPLICATION PLATFORM TEAMS)   *May. 2018 - Oct. 2019*

- Designed and delivered a distributed, sharded muting microservice backed by Helix and ElasticSearch which matches streaming data and events against user-defined rules in order to mute alerts in real time.
- Integrated MongoDB with SignalFx's backend architecture and wrote a generic Java client to migrate business objects into the cluster.
- Built a cloud storage migration system (EBS, GCS, etc.) and reduced our ElasticSearch, Cassandra, and MongoDB cluster average MTTR by 90%.
- Integrated Facebook's zstandard compression library with our backup pipeline, dramatically reducing file size and saving $3000/month.

Illumio   *Sunnyvale, CA*

SOFTWARE ENGINEER (PRODUCTION ENGINEERING INTERN)   *Jun. 2016 - Sept. 2016*

- Leveraged Ruby on Rails, Scala, and Gatling to create a system for managing, monitoring, analyzing, and executing all production tests.
- Built a REST API server to allow production engineers to build complex scripts which utilized my testing system.
- Integrated the system with the company's OneLogin authentication to ensure that only production engineers could use the system.

Intel   *Hillsboro, OR*

SOFTWARE ENGINEER (NETWORK PLATFORM LAB INTERN)   *Jun. 2015 - Oct. 2015*

- Utilized Python and Django to quickly collect and analyze gigabytes of server data logs and display the statistics on a web server.
- Contributed to the development of core components of a 4G LTE cellular network using C++.
- Identified and optimized a bottleneck that involved flushing to standard out, resulting in an application speedup of 200%.

Awesome Projects

Expedia Big Data Analysis

PYTHON, PANDAS, NUMPY, D3.JS

- Analyzed a LARGE (multiple TB) Expedia dataset using Python and used the results to develop a marketing strategy to improve customer conversion.
- Developed a visualization to demonstrate and showcase the data to a panel of judges using Javascript and D3.
- Finalist project at UCLA's DataFest 2017!

Connoisseur (Capstone)

IOS, REACT NATIVE, MOBILE

- Built an iOS application using the React Native framework which provides restaurant suggestions based on a Netflix-like recommendation algorithm.
- Migrated from Node.js to a Java Spring backend infrastructure, resulting in more efficient API calls.
- Overhauled the front-end interface to provide a robust visual design and improve usability and functionality.