# Sid **Narayan**

SOFTWARE ENGINEER
*San Francisco, CA*

☎ (+1) 626-230-0465   |   ✉ sidsdn@protonmail.com   |   ⌨ sidheart   |   ⬚ sidheartn

## **Edu**cation ───────────────────────────────

**UCLA (University of California, Los Angeles)**                                    *Los Angeles, California*
B.S. IN COMPUTER SCIENCE                                                           *Sep. 2013 - Dec. 2017 (Expected)*
• GPA: 3.6 /4.0

## **Exp**erience ───────────────────────────────

**Amazon**                                                                         *Palo Alto, CA*
SOFTWARE DEVELOPMENT ENGINEER 2 (AMAZON ELASTICSEARCH)                              *Mar. 2020 - Jan. 2020*
• Designed and implemented a self-healing feature for Elasticsearch using Java which detects node and cluster issues and fixes them in real time.
• Developed a dynamic throttling mechanism for Elasticsearch which stops floods of queries and requests from taking down any cluster.
• Contributed to open source Elasticsearch plugins for metrics collection, aggregation, and analytics.

**Splunk**                                                                         *San Jose, CA*
SOFTWARE ENGINEER (PLATFORM TEAM)                                                  *Oct. 2019 - Mar. 2020*
• Improved the routing logic in our Golang based control plane, giving customers fine-grained control over where their data resides and who can access it.
• Implemented a new authentication service backed by a distributed cache and Kafka, removing a critical system bottleneck and reducing average user authentication time by 75%.
• Refactored 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*
• Shipped a distributed service backed by Helix and Elasticsearch which matches event streams with user-defined rules in order to mute annoying alerts in real time.
• Integrated MongoDB with SignalFx's backend architecture and wrote a generic Java client to extract, transform, and load business objects into the cluster.
• Built a cloud storage migration system (EBS, GCS, etc.) which 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 and execute complex testing scripts.
• 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.
• Implemented and modified core control plane components of a 4G LTE cellular network using C++.
• Discovered and optimized inefficient writes in the software, resulting in an application speedup of 200%.

## **Awe**some 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.