

# Varun Parthasarathy

SOFTWARE ENGINEER

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## Education

### University of Illinois at Urbana-Champaign

BACHELOR OF SCIENCE IN STATISTICS & COMPUTER SCIENCE

*Champaign, IL*

*May 2019*

## Skills

**Languages** Python, Java, Go, C, C++, C#, Javascript, HTML, CSS, SQL  
**Technologies** Kubernetes, Docker, GKE, Flask, Git, Linux, Android, Node.js

## Experience

### Netskope

*Santa Clara, CA*

SOFTWARE ENGINEER

*June 2019 - May 2020*

- Worked on Kubernetes cluster deployment and management software solution used to deploy microservices to multiple data centers.
- Designed and implemented features such as service discovery, scheduling, and auto-scaling using both Python and Golang.
- Worked with various technologies including Kubernetes and Docker to develop a container configuration and inspection tool for production deployments.

### Amazon

*Seattle, WA*

SOFTWARE DEVELOPMENT ENGINEER INTERN

*May 2018 - August 2018*

- Worked on Promotions Services team implementing promotional discounts and coupons on retail platform.
- Developed promotion discovery API to allow promotional discounts to be messaged to users prior to checkout.
- Implemented discount discovery and calculation logic to find applicable discounts and calculate discount charges for items.

### Aruba, a Hewlett Packard Enterprise company

*Santa Clara, CA*

SOFTWARE ENGINEERING INTERN

*May 2017 - August 2017*

- Worked on team developing 'Introspect' User and Entity Behavior Analytics solution.
- Developed continuous integration testing framework to ensure functionality of ETL data processing components, improving testing times from over an hour to less than 5 minutes.
- Worked with Hadoop HDFS, Apache Spark, and other big data frameworks and technologies.
- Contributed various improvements to log parsing engine and back end APIs.

### Chatgrid

*Menlo Park, CA*

DEVELOPER INTERN

*June 2016 - August. 2016*

- Designed and implemented instant messaging customer survey service.
- Worked with team members to design service and database structure from specifications.
- Utilized Node.js to create event-driven fluid conversation module.

### MobileIron

*Mountain View, CA*

SUMMER INTERN

*July 2014 - August 2014*

- Developed secure enterprise messaging android app prototype.

## Projects

### Random Forest

- Python random forest and decision tree classifiers for categorical or discretized numeric attributes.
- Features variable forest and tree size and attribute sampling.

### PageRank Crawler

- Python program that crawls webpages, and then ranks them by importance using the PageRank algorithm.
- Includes HTML crawling/parsing, page mapping, and ranking functionality.