

# Abhimanyu Choudhary

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## OBJECTIVE

Looking for a Software Engineer full time position to solve challenging problems in a professional environment. I am passionate about Cloud Computing and DevOps

## EDUCATION

**M.S. in Computer Science** | Santa Clara University, Santa Clara, CA

Sep 2018 - Jun 2020

**B.E. in Computer Science** | VTU, Bangalore, India

Sep 2012 - Jul 2016

Coursework: Design & Analysis of Algorithms, Web Architecture and Protocols, Object Oriented Design & Programming, Operating Systems, Advanced Database Systems, Computer Networks

## SKILLS

**Languages:** Java, Python, SQL, Javascript, HTML, CSS

**Technologies:** Google Cloud Platform, Amazon Web Services, Kubernetes objects-Service, Deployment etc., Helm, Docker, Linux distributions, Kafka, ELK, Fluentd, Oracle DB, Internet of Things (IoT), Data Warehouse

**Tools:** CI/CD - Jenkins, Terraform, Eclipse, SQL developer, Git, Grafana dashboards, Graphite, Prometheus

**Certification:** Google Cloud Certified Associate Cloud Engineer in June 2019

**Google Cloud Services:** Compute Engine, Databases, Kubernetes Engine, Virtual Private Cloud, Stackdriver

**Hackathon:** Participated in Microsoft Azure Minibot hackathon creating a dictionary minibot which returns the meaning of the word given as input

## WORK EXPERIENCE

**Cloud Operations Intern | Juniper Networks, Cupertino, CA**

Jul - Sep 2019

- Owned the migration of multiple containerized applications from Apache Mesos to **Kubernetes (k8s)** for performance improvement using **AWS services** like ECR, S3, EC2, Cloudwatch, Route53
- Migrated Grafana dashboards to k8s for metrics **monitoring** of applications for developers and Cloud Ops team. Got exposure to application **logging** in k8s using Fluentd and, Graphite, Prometheus, ELK stack.
- Orchestrated **continuous deployment** for services in Kubernetes using **Helm Chart & Helm Release**. Interacted with infrastructure automation tool Terraform, and with Jenkins. Also got exposure to Apache Kafka

**Software Engineer | Tata Consultancy Services, India**

Oct 2016 - Jul 2018

- Created monitoring services which gives periodic data of Oracle ERP sales orders using J2EE MVC on Spring
- Developed near real-time monitoring dashboard for an order management tool to ensure an improved level of customer service resulting in reduced resolution time by 30%
- Creating PL/SQL and SQL scripts to reduce response time of queries

**Software Engineer Intern | Rentomojo (Startup), India**

Mar - May 2016

- Designed and developed UI in an agile framework for the Rentomojo website and verified **unit test** scenarios
- Logged and managed defects using **JIRA**. Performed unit testing and integration testing

## ACADEMIC PROJECTS

### Personal website

Sep - Nov 2019

To showcase my resume and create professional connections. Created UI using HTML, CSS, Javascript and hosted the site initially on AWS EC2 using Apache web server. Currently the website is running as a Container deployed on **Google Kubernetes Engine**. [Link](#)

### HiveQL on Hadoop

Sep - Nov 2019

Created a tourism database on **MySQL** and did performance comparison of SQL vs HiveQL on various queries

### Automatic Plant Feeder

Jan - Mar 2019

Created an IOT application that automatically feeds water and turns on light on growing plants based on specified thresholds while the owner is away on vacation. Uses multiple sensors connected to ESP32 microcontroller to sense moisture and light levels. Plant metrics shown on the website periodically.

### Traffic Commute Project

Jan - Mar 2019

Created **REST API** using BART API (Bay Area Rapid Transport) in Java to display route information between train stations to user

### Emergency Care App

Feb - May 2016

Allows users in need of urgent medical care to find the nearest hospital. App displayed the list of nearest hospitals using current location of the user utilizing Google maps and allow to navigate to the desired hospital