

# SUSHMITHA SUNKURDI NATARAJ

San Francisco, CA | 707-360-7221 | sushmithabhat09@gmail.com

<https://www.linkedin.com/in/sushmitha-sn/> | <https://sushmithanataraj.github.io/SushmithaPortfolio/>

## EDUCATION

<b>Master of Science, Computer Science</b>	<b>GPA: 3.87</b>	<b>May 2021</b>
University of Utah, Salt Lake City, Utah		
<b>Coursework:</b> Advanced Algorithms, Visualization for Data Science, Data Mining, Artificial Intelligence		
<b>Bachelor of Engineering, Information Science and Engineering</b>	<b>GPA: 9.16/10</b>	<b>May 2016</b>
Sri Jayachamarajendra College of Engineering, Mysore, India		

## TECHNICAL SKILLS

**Programming Languages:** Python, JavaScript, Scala, Java

**Frameworks, Libraries & Web Technologies:** Flask, Finagle, Finatra, React, Redux, Node.js, Rest API

**Scripting & Debugging:** Dtrace, Unix Shell scripting, MDB

**Databases:** MongoDB, MySQL, Oracle

**Cloud & Analytics:** Google Analytics, GCP, HDFS, BigQuery, Looker

**Version Control:** Git, Mercurial

## EXPERIENCE

<b>Software Engineer, Consumer Software Team</b>	<b>Twitter, Inc</b>	<b>June 2021 - Present</b>
--	---------------------	----------------------------

Improve the availability, scalability, performance and reliability of Twitter's production services. Scale the software systems, optimize performance, and work with product engineering teams and other Site Reliability Engineers to productionalize services through configuration management, monitoring, alerting, and documentation.

- Designed and Developed a Feature Launch Pilot system that helps to relieve the burden of launch by automated ramping, effective monitoring, auditing, and notification system.
- Worked on an alert tracking and follow-up tool that helps to reduce engineer time spent responding to alerts across Twitter. Improved global Twitter reliability by identifying 20% of services which cause 80% of alerts.
- Worked on building a centralized data reporting and analytics system to provide data and insights around Reliability Reviews, SRE Monthly Business Reviews, and ongoing planning activities within Consumer org.

<b>Software Development Intern</b>	<b>Atomic Fi, Inc</b>	<b>May 2020 - Aug 2020</b>
------------------------------------	-----------------------	----------------------------

- Developed solutions to authenticate customers into their payroll account and to verify a user's income and employment status through AtomicFi Transact.
- Developed a web-based MongoDB query portal using Node.js, Express, and React that facilitates AtomicFi engineers with their daily work.
- Built numerous crawlers and robotic process automation scripts to gather valuable data.

<b>Graduate Teaching Assistant</b>	<b>University of Utah</b>	<b>Aug 2020 - May 2021</b>
------------------------------------	---------------------------	----------------------------

- Reinforced lessons presented by Professors, developed programming assignments solutions, held office hours, conducted lab sessions and code reviews, and graded student assignments.

<b>Associate Software Engineer</b>	<b>Oracle India Pvt. Ltd</b>	<b>Jun 2016 - Jul 2019</b>
------------------------------------	------------------------------	----------------------------

- Developed new features in Solaris Storage Drivers.
- Made significant improvements to FC, NPIV, SCSI Target Driver, MPXIO code base by successfully resolving high priority bugs in mpathadm, npiv, fcinfo command space.
- Developed a new feature to allow host failover on receiving a special sense key from Hitachi storage.

## ACADEMIC PROJECTS

<b>Rule Based Question Answering System</b>	<b>Oct 2020 - Dec 2020</b>
---	----------------------------

- Designed and built a Question Answering System that can process a story and a list of questions and produce an answer for each question.

[https://github.com/SushmithaNataraj/NLP/tree/master/Question\\_Answering\\_System-main](https://github.com/SushmithaNataraj/NLP/tree/master/Question_Answering_System-main)

### **Analyzing Chicago Taxi Trips Behavior via Data Mining**

**Feb 2020 - April 2020**

- Developed a model to predict the average speed of the taxi trip by applying methods like Clustering, and Linear Regression and improved the model by finding out the most significant attributes that affect speed.  
<https://github.com/SushmithaNataraj/Data-Mining-Project>

### **Interactive Visualization of the USA air pollution**

**Oct 2019 - Dec 2019**

- Developed an interactive website for demonstrating pollution trends in the US, which allows the user to visualize the trend in the various air pollutants.
- It also enables the user to compare the pollution level between any two selected states.  
<https://sushmithanataraj.github.io/Data-Visualization-Project/>

### **HONORS & ACTIVITIES**

---

- Google Tapia Scholar 2020.
- WIT Regatta Scholar 2020.
- Vice President Membership of IBCT Toastmasters for the term Jan 2019 - Jun 2019.
- Sergeant at Arms of IBCT Toastmasters for the term Jun 2018 - Dec 2018.