

K Sundar Rajan

SOFTWARE ENGINEER

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Work Experience

Freshworks Inc.

Chennai

SOFTWARE DEVELOPER INTERN

July 2020 - Ongoing

- Containerized a multitude of frameworks like Cassandra, Elasticsearch, Redis, etc. using Docker and enabled communications between them using host network and volumes. Reduced the RAM consumption from around 6 GB to 3 GB and reduced the storage used by 80%.
- Wrote a cookbook in Chef Infra and deployed using Opsworks, which contained recipes to automate the log rotation from an EC2 instance to an S3 bucket.

Freshworks Inc.

Chennai

SOFTWARE DEVELOPER INTERN

May 2018 – July 2018

- Integrated 3rd party apps such as Tokbox, ZOHO Books, ZOHO Inventory, etc with the Freshdesk helpdesk software and also built employee productivity tools on it using Freshdesk's SDK built on NodeJS.

Education

SSN College Of Engineering

Chennai

B.E. IN COMPUTER SCIENCE AND ENGINEERING

August 2016 – May 2020

- CGPA : 8.22

Projects

Distributed Data Pipeline for Identifying Cab Hotspots using geofencing in Real-Time

Chennai

TECHNOLOGIES USED - APACHE PULSAR, REDIS, GOOGLE BIGQUERY, PYTHON, NODEJS

November 2019 - March 2019

- Set up a 3 node Pulsar cluster to ingest live stream of location coordinates from cabs which is transformed to its corresponding geofence using pulsar functions and then stored in a Redis datastore, plotted on Google Maps to identify cab hotspots in real-time.
- Periodic snapshots of redis table is taken and stored in Google BigQuery for analytics.

Elevator Simulation

Chennai

TECHNOLOGIES USED - PYTHON, FLASK, JAVASCRIPT

September 2019 - October 2019

- An application which simulates the functioning of K elevators in an N floored building using 2 algorithms - Shortest Path First and Look.

Adaptor Application for ML Facilitation

Chennai

TECHNOLOGIES USED - PYTHON, POSTGRES, JAVASCRIPT, FLASK

December 2018 - February 2019

- Created an adaptor application using Python & JavaScript which helps users feed any ML algorithm to the application, connect to a database(Postgres) and point to a table, choose the dependent and independent variables from the table, run the given ML algorithm and see the predictions in an user friendly way.

Technical Strengths

Languages C++ · [Fluent]; Python, JavaScript, HTML/CSS, SQL, NodeJS · [Comfortable]; Java · [Beginner]

Technologies Microsoft Azure, Docker, Redis, Apache Pulsar, Postgres, Chef Infra, AWS

Skills & Interests Distributed Systems, Streaming data, Pub-sub systems & message queues, Data Structures, Algorithms

Achievements

2017 **ACM ICPC**, Member of team Code_Overload which ranked 51st in Asia Regionals - Kharagpur

2017 **ACM Provincial Contest '17**, Member of team Code_Overload which ranked 4th in Chennai Regionals

2016 **Indian National Olympiad in Informatics(INOI)**, Qualified by clearing Zonal Computing Olympiad

2018,2019 **Facebook Hackercup**, Cleared qualification and first round

2018,2019 **Google Code Jam**, Cleared qualification and first round

2016-19 **Technical Symposiums**, Won several programming contests in various college techfests

Organizations and Interests

Google AI | Explore ML

Student Facilitator for the Google AI's Explore ML Program. Conducted ML workshops for college students.

Codechef Trainer

Trainer at a week long programming workshop conducted by Codechef for School and College students.

Competitive Programming

Active Problem Solving on Codeforces and Codechef

SSN Coding Community

Head of SSN Coding Community - MAXFLOW. Taught and mentored students for 4 years, conducted weekly meetings and programming contests on various platforms.

Professional Carnatic Violinist

Music lover. Performed over 300 concerts in various prestigious halls all over India such as Shanmukhananda Hall (Mumbai).