

# K Sundar Rajan

SOFTWARE ENGINEER

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## Work Experience

### IIT Madras

Chennai

INTERN 🌐

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.

### Freshworks Inc.

Chennai

SOFTWARE DEVELOPER INTERN

May 2018 - July 2018

- Integrated apps such as Tokbox,ZOHO Books,ZOHO Inventory, etc with the Freshdesk helpdesk software 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 : 8.20

## Projects

### A geofencing based approach for identifying cab hotspots

Chennai

TECHNOLOGIES USED - APACHE PULSAR

September 2019 - Ongoing

- Identifies the cab distribution problem (hotspots) in a geo-location based on the live location of cabs which is a stream data and sends an alert if it exceeds a certain threshold value, using Apache Pulsar - distributed pub-sub messaging system which has both stream processing and computational capabilities. It also predicts the cab demand for the next day in a geo-location using the historical data which is available.

### 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.

### Speech Recognition 🌐

Chennai

TECHNOLOGIES USED - PYTHON,TENSORFLOW,MICROSOFT AZURE

October 2018 - December 2018

- Recognised several words from speech dataset available in the Tensorflow website by converting it into spectrogram images. Different CNN architectures were run in a Microsoft Azure Standard NC6 (6 vcpus, 56 GiB memory) instance and the best model(best accuracy) was obtained.

## Skills & Technologies

**Languages** C/C++ (Proficient), Python (Adept), JavaScript (Adept), HTML/CSS (Adept), Java (Beginner)

**Skills** Data Structures, Algorithms, Deep Learning, SQL, Distributed Systems, Apache Pulsar

## Achievements

2017 **ACM ICPC**, Qualified for Asia Regionals Kharagpur

2017 **ACM Chennai Provincial Contest '17**, 4th place

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

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

## Certifications

2018 **Neural Networks and Deep Learning**, Coursera 🌐

2018 **Improving Neural Networks: Hyperparameter tuning, Regularization and Optimization**, Coursera 🌐

2018 **Structuring Machine Learning Projects**, Coursera 🌐

## Organizations and Interests

**Google AI | Explore ML**

Student Facilitator for the Google AI's Explore ML Program.

**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

**Professional Carnatic Violinist**

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