K Sundar Rajan

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EDUCATION

- **SSN College Of Engineering (affiliated with Anna University)** — Chennai
  B.E. in Computer Science and Engineering - **CGPA : 8.22/10.0** — *August 2016 – September 2020*

EXPERIENCE

- **Freshworks Inc. - Freshmarketer** — Chennai
  Software Engineer - Graduate Trainee — *Jul 2020 - Present*
  - **Centralizing Services**: Designed & implemented a distributed system running database services, which is fault-tolerant and resilient using AWS, also providing multi-tenant solutions. Moved services from local systems to cloud, reduced RAM usage by 70%, and improved the productivity of developers by 50%.
  - **Containerization**: 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 by 50% and reduced the storage used by 80%.
  - **AWS Opsworks**: Wrote cookbooks containing recipes in Chef Infra to automate the log rotation from EC2 instances to S3, install and run different services like Cassandra, Elasticsearch, etc. and deployed using Opsworks.
  - **Infrastructure**: Different Adhoc infrastructure-related tasks to ensure the proper working of the product, and optimizing workflow in AWS.

- **Freshworks Inc. - Marketplace** — Chennai
  Software Developer Intern — *May 2018 – July 2018*
  - **Web Apps**: 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. Increased agent productivity by reducing context switching and integrating data across multiple platforms.

PROJECTS

- **Distributed Data Pipeline for Identifying Cab Hotspots using Geofencing in Real-Time**: Three node Pulsar cluster to ingest a live stream of location coordinates from cabs, transform to its corresponding geofence using Pulsar Functions, cache in Redis, store in BigQuery and plot on Google Maps to identify cab hotspots in real-time.
- **Adaptor for ML - worked in Resileo labs (Indian Institute Of Technology, Madras)** ⌂: Adaptor using Python & JavaScript which accepts an ML algorithm, connects to a Postgres database, points to a table, select the chosen dependent and independent variables from the table, run the given ML algorithm and display the results.

PROGRAMMING SKILLS

- **Languages**: C++ · [Fluent]; Python, Linux Shell Script, SQL, NodeJS · [Comfortable]; Java · [Beginner]
- **Technologies**: AWS, Docker, Redis, Apache Pulsar, Postgres, Opsworks, Microsoft Azure
- **Skills & Interests**: Distributed Systems, Pub-Sub Systems & Message Queues, Data Structures, Algorithms

ACHIEVEMENTS

- **ACM ICPC**: Member of team Code_Overload which ranked 51st in Asia Regionals - Kharagpur in 2017.
- **ACM Provincial Contest**: Member of team Code_Overload which ranked 4th in Chennai Regionals in 2017.
- **Indian National Olympiad in Informatics(INOI)**: Qualified by clearing Zonal Computing Olympiad in 2016.
- **Facebook Hackercup**: Qualified for second round in 2017 and 2018.
- **Google Code Jam**: Qualified for second round in 2017 and 2018.

ORGANIZATION & INTERESTS

- **Google AI Explore ML**: Student Facilitator for Google AI Explore ML Program & conducted workshops.
- **Codechef Trainer**: Trainer at a week long programming workshop conducted by Codechef.
- **SSN Coding Community President**: Mentored students for 4 years, conducted weekly meetings & coding contests.
- **Professional Carnatic Violinist**: Performed over 300 concerts in various prestigious halls all over India including the Shanmukhananda Hall (Mumbai).