# Sachin Govind

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## EDUCATION

### NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL
GPA: 8.28, B.Tech CSE
JEE MAINS: 1033
Jun 2017 | Warangal,India

### XII BOARD
98.3%, Merit Rank Holder
May 2013 | Hyderabad, India

### X CBSE BOARD
10 CGPA
May 2011 | Hyderabad, India

## SKILLS

**Microservices**
Processed >25 Billion transactions
Nodejs, Python, Go, Java
**Databases**
Redis, Elasticsearch, MongoDB
MySQL, Postgresql,
**Distributed systems**
Kubernetes, Docker, Azure, AWS
Apache Kafka, Nginx, HaProxy
**Analytics**
Apache Druid, Spark, HBase, TiDB
**Monitoring/ Logging**
Prometheus, Fluentd, ELK Stack, Nagios
**Frontend**
React, Redux, VanillaJS
**Familiar:**
RabbitMQ, Airflow, JS frameworks,
Pandas, Numpy

## COURSEWORK

### UNDERGRADUATE
Data Structures and Algorithms
Database Management Systems
Operating Systems
Computer Architecture
Cloud Computing
Object Oriented Programming
Systems Programming
Cryptography and Security
Compilers
Distributed Computing

### PUBLICATIONS
[1] K. S. Sachin Govind, Ramakrishnudu T.
Novel recommender systems using
personalized sentiment mining. *IEEE
(CONECCT)*, 2018.

## EXPERIENCE

### GOOGLE | Senior Software Engineer - L5
Oct 2023 – Current | Bengaluru, Karnataka
Making Google BigQuery robust and a delight to work with in the BigQuery Storage team. Learning from other talented folks.
- **Cross Region Replication:**Efficient live replication of datasets for instant disaster recovery for enterprises across multiple regions. Fast **Quota based copy of tables** across region.
- **LSM Index Garbage Collector:** Reduced mean time to clean up a garbage LSM indexes from 28 to 12 hours with savings of 120 PB/hours in storage, faster queries due to reduced data scans.

Currently, working on enabling easy sharing of datasets across Organizations.

### NIRVANA INSURANCE | Tech Lead/ Early Employee
Oct 2022 – Sep 2023 | Bengaluru, Karnataka

### YELLOW.AI | Engineering Manager/ Eng. Employee #1
Jan 2018 – Sep 2022 | Bengaluru, Karnataka

- **#2 Employee:** I worked closely with the CTO to build the product from scratch. As a conversational AI provider, we have scaled from **50k msg / month to 250M msg / month**. We process more than **4B** events a month.
- **Campaigns Module:** Conceptualised and grew the team to this **13 devs over 2 years**. Achieved **2 Billion** Notifications on whatsApp. It is now a key business vertical. I am responsible for the customer NPS, revenue, liaising with the product, UX and other teams.
- **Realtime Analytics:** Currently leading this to provide a real-time dashboard similar to Google analytics. I lead this with **3 devs**. Introduced **Kafka**. Maintained 15 Node **ElasticSearch Cluster (5B documents), Logstash pipelines and Apache Druid (20B events)**.
- **SOS Person :** Involved in every production outage. Experienced in working under stress of outage, providing innovative solutions, evaluating trade-offs to quickly get back online.
- **Initial Infrastructure:** Helped setup almost every infra in the first 2 years. Azure, AWS, LBs, VMs, API Gateways, Nginx, DR setup, Mongodb, Redis, Real time messaging systems.
- **K8s Executor:** Executes jobs on Kubernetes. Similar to Airflow but multi-tenant, custom built for Yellow's workflow and for simplicity.
- **In-house FAAS:** Cloud functions (only nodejs), resource limits, CI/CD and debugger.
- **Monitoring/Alerting:** Setup using Prometheus, Grafana, Nagios.
- **Web Portal:** Enterprise admin portal as a part of an initial three member team using React/ Redux.

### ARCESIUM (DE.SHAW SPIN-OFF) | Member Technical
July 2017 – Dec 2017 | Hyderabad, India
- Worked on Java, Spring, Tomcat, REST APIs to generate timely reports. Contributed to the reports web portal.

### QUALCOMM Intern | PPO offered
May 2016 – July 2016 | Hyderabad, India

- Designed heuristics for efficient rendering of graphics on Android N leading to 30% improvement in performance at the same energy consumption.