

S. A. Kumar

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EDUCATION

IIIT, ALLAHABAD

B. TECH. IN INFORMATION TECHNOLOGY

June 2015 | Allahabad, India

Cum. GPA: 4/4

D. A. V. PUBLIC SCHOOL

Grad. May 2011 | W.B., India

CBSE Grade 12th Exam – 9.0/10

CBSE Grade 10th Exam – 9.6/10

SKILLS

PROGRAMMING

Over 10,000 lines:

Python • C++ • GoLang • Java

Over 5,000 lines:

Javascript • Ruby • Rust

FRAMEWORK

Flask • Play • Rails • Express.js

Pytorch • Tensorflow • AngularJS •

ReactJs

DATABASE

• BigQuery • Presto • Postgres

• ElasticSearch • Hive • Redis

• MySQL • MongoDB

LINKS

Github:// [ksavinash9](#)

LinkedIn:// [kumarsa9](#)

Topcoder:// [ksavinash](#)

COMPETITION

ACM International Collegiate Programming Contest

11th/822 | Team Corleone

Dec 2013 | Kharagpur, India

Secured 11th Rank out of 822 teams for ACM-ICPC Asia Regionals.

INTERESTS

Computer Vision

Machine Learning

Artificial Intelligence

Designing Scalable Architecture

Algorithms and Problem Solving

Open Source Contribution

EXPERIENCE

LYFT INC | Palo Alto, USA | 2018 – Present

SOFTWARE ENGINEER IN SELF-DRIVING DIVISION OF LYFT

- Joined **self driving technology** division of Lyft. Led multiple projects, filed patents, managed two interns and conducted interviews.
- Led a team of 5 engineers and data scientists to build pipelines and ML models to run **2M simulations per day** for 5 teams in self driving division of Lyft.
- Led a team of 6 engineers to build an **on-device ML model** for parsing and fraud detection of credit cards using **TensorflowLite** and **Active Learning**. This project received **5 Million** impressions per month and generated ARR of **\$XX Millions** for Lyft.
- Led a team of 5 engineers to build a real-time detection engine of risky and fraudulent drivers. This project evaluated 100K drivers every minute and saved ARR of **\$XX Millions** for Lyft in insurance costs.

AMAZON DEVELOPMENT CENTER | Berlin, Germany | 2017 – 2018

SOFTWARE DEVELOPER IN CORE MACHINE LEARNING TEAM

- Joined Computer Vision team in **Core ML** org of Amazon.
- Wrote the data collection, training, validation and metrics pipeline to productionize a **CNN** model to grade the quality of perishable food at scale.
- Led a team of 3 engineers to build a central hub to store ML models and publish metrics. This product was used by 10 teams to store >200 ML models.

NINJAVAN | Raised \$400 Millions | Singapore | 2016 – 2016

BACKEND DEVELOPER IN ROUTING TEAM

- Used **Java Play** and **K8s** to write micro services to improve the routing and delivery of 300K packages/day across 6 countries in South East Asia.
- Wrote a genetic algorithm based routing engine to improve the same-day delivery of packages. This service reduced the average delivery time per package from 32 minutes to 24 minutes.

HOUSING.COM | Raised \$150M | Mumbai | 2015 – 2015

BACKEND SOFTWARE DEVELOPER IN GEOLOCATION TEAM

- Wrote an ETL for **indexing** of over 20 millions geo-spatial coordinates in Redis and ElasticSearch using **GoLang** and **RabbitMQ**
- Performed on-call, maintained and improved latency of Tier 0 APIs at **10,000 QPS** using **ElasticSearch**, **Redis** and **Ruby on Rails**.

GOOGLE | Bangalore, India | 2015 – 2015

SOFTWARE ENGINEERING INTERNSHIP IN FULL STACK

- 6 months internship at subsidiary of Google Cloud Platform, APIGEE.
- Wrote pre-alert feature based on anomalies detection in **Node.js** which increased the alert accuracy by 145%.
- Added a graphical UI for real-time analytics in **AngularJS**

AWARDS/WORKS

2020 Won 2 prizes

2015 Won 3 prizes

2013 3rd/108

2015 Won 4 prizes

2013 71.14%ile

2018 Open Source Contribution

Inventor Awards at Lyft for filing patents

Topcoder Development Challenges

Topcoder Game Design Challenges

Topcoder Assembly Challenges

Topcoder Algorithmic Competitions

Contributed to Google's Cartographer project