

# 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 | Chittaranjan, 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 6 developers to build data pipelines, services and ML models to generate source agnostic trajectories for localization, prediction, scenarios and map build teams of self driving division at Lyft.
- Defined engineering roadmap and led a team of 7 developers to build a **SSDLite** model for on-device parsing and fraud detection of credit cards using **TensorflowLite** and **Active Learning**. This project received **5 Million** impressions per month and generated ARR of **\$25 Millions** for Lyft.

### 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 three developers to build a central hub to store ML models and publish metrics. This product was used by 30 teams to store >200 ML models.

### NINJAVAN | Raised \$250 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

2014	1005/9900	Google Code Jam, 1A Round
2015	Won 3 prizes	Topcoder Nodejs Development Challenges
2013	71.14%ile	Topcoder Algorithmic Competitions
2013	3rd/108	Topcoder Game Design Challenges
2015	Won 4 prizes	Topcoder Assembly Challenges
2014	Open Source Contribution	Contributed to KDE