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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 • Angular JS • React Js

#### **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

#### B. TECH. IN INFORMATION TECHNOLOGY 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 4 engineers to build data pipelines, services and ML models to generate and serve trajectories for 5 teams in self driving division.
- Led a team of 6 engineers to build a SSDLite 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	Inventor Awards at Lyft for filing patents
2015	Won 3 prizes	Topcoder Development Challenges
2013	3rd/108	Topcoder Game Design Challenges
2015	Won 4 prizes	Topcoder Assembly Challenges
2013	71.14%ile	Topcoder Algorithmic Competitions
2018	Open Source Contribution	Contributed to Google's Cartographer project