

Vijay Kumar

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Experience Highlights

- **8 years** of experience in building distributed systems.
- Experience defining system architectures and designs, exploring technical feasibility tradeoffs, and making data-driven decisions.
- In-depth knowledge of data structures, algorithms and complexity analysis
- Expertise and strong programming experience in Core Java, Design patterns
- Designed and implemented several REST APIs.
- Comfortable multi-tasking, managing multiple stakeholders and working as part of a team
- Ability to mentor other software developers to develop all aspects of their engineering skill sets.

Education

2011-2013	M.Tech (Computer Engineering) NIT Kurukshetra.	9.6 CGPA
2006-2010	B.Tech CSE Kurukshetra University	75.05 %
2006	XII S.D. Sr. Sec. School, Narwana. (H.B.S.E.)	83.80 %
2004	X Govt. Sr. Sec. School, Jakhal Mandi. (H.B.S.E.)	69.16 %

Experience Details

Software Development Engineer (SDE II) – Amazon Last Mile Tech

Node Visibility Team

[March 2019 – April 2021]

Delivery station - package state and metrics

1. Complete ownership of a delivery package state authority service – design and implementation; alarms and monitoring; migration of dependent services; peak scaling and de-scaling
2. Development of distributed throttling peer discovery library for amazon ECS services. This library become one of the recommendations in Amazon internal teams to implement throttling
3. Utility scripts to setup alarms for infra resources – SNS, SQS, Lambdas etc. Significantly reduced the team's effort in alarms thresholds review and update
4. Implemented various lambdas to power station performance dashboard
5. Lead the development of POC project for alternative to station metrics computations using Kinesis Data Analytics

Software Development Engineer - Ittiam System Pvt. Ltd

THINKode

[July 2013 – July 2018]

Machine learning based content adaptive video processing platform for public and private data centers.

1. Design and implementation of workflow and resource manager using Java spring framework.
2. Python and C++ implementation of optimizer - machine learning based video bitrate prediction tool
3. Derived the design and implementation of following
 - a. HTTP basic authentication for REST endpoints using spring security
 - b. instance manager using AWS EC2 APIs
 - c. User management module
 - d. Abstraction for MongoDB and RabbitMQ.
 - e. Failover of Java components and MongoDB
4. Java application to test overall flow using REST endpoints.
5. Sync APIs for Dropbox and FTP server.
6. Product release for various customers and demos

Ittiaminsite

[Aug 2018 – Feb 2019]

Retail analytics using computer vision.

1. Sale conversion metric - aggregation and integration of store's sales data with people count data
2. Design and implementation of real-time device presence using GCP Firebase
3. REST APIs to create job in Kubernetes
4. Optimization of data aggregation workflow

M.Tech Research Area

Key Management in Wireless Sensor Network.

Current Job Description

Software Development Engineer (SDE II) – Amazon Finance Tech

Technical Skill Set

1. Programming Language – Java, Python
2. Database – SQL, DynamoDB
3. OS – Linux/Unix, Windows, Mac

Personal Details

- **Date of birth:** 13 Mar. 1989
- **Father's Name:** Sh. Suresh Kumar
- **Languages Known:** English, Hindi, Punjabi.
- **Permanent Address:** Aggarwal Jewellers, Jindal Road Jakhal Mandi, Distt-. Fatehabad-125133, Haryana
- **Current Address:** House no. 505, 1st Floor, Sector-23, Gurgaon - 122017.