

EMPLOYMENT

Amazon (Hyderabad, India)

Software Development Engineer - II

Apr 2021 - Present

[Amazon.com/services](https://amazon.com/services)

- Re-designed and developed a microservice from synchronous EC2-server hosted architecture to an asynchronous serverless architecture. Technologies: Java and AWS-CDK (in Typescript)
- Migrated our team's logic from external service to a new plugin. Owned end to end design and development.
- Worked with Product Managers and Accounting to identify and correct \$100K+ worth of liability that was being booked due to incorrect configurations which our team was not aware of.
- Acting as an approved accounting TPM in my team. This involves reviewing accounting modelling documents and code reviews. Also acting as a mentor to a new SDE in my team.

Software Development Engineer - I

June 2019 – March 2021

- Designed and developed backend for a UI used by Amazon Partners. Design Choices: Replicating downstream source of data to support fast queries, NoSQL database vs search engine to support query filters.
- Designed and developed backend APIs in Java for multiple Microservices.
- Reduced traffic of a Microservice by 75% - added filters during invocation.
- Reduced team's overall infrastructure cost by 50% (optimized CPU, host types and traffic)
- Identified patterns and reduced my team's production impacting trouble tickets by ~20%.
- Automated multiple steps which were part of manual SOPs – manual misses had caused impact of \$100k+ and multiple high-severity tickets.
- Worked backwards from customers – Tax, Accounting, Finance, Product & External Dev teams to understand requirements and pain points. Coordinated with all stakeholders and drove consensus.
- Made major contributions to team documentation and mentored an intern.

National Institute of Technology, Delhi

Summer Research Intern

May 2018 – July 2018

- Research Title: "Comparative Analysis of Machine Learning Classifiers on Physiological Signals".
- Built machine learning models for classification in MATLAB and compared their performance.

EDUCATION

Noida, Uttar Pradesh

Jaypee Institute of Information Technology

2015 – 2019

- **B.Tech in Computer Science Engineering.** CGPA: **7.8/10.0**. Major Project CGPA: **9.0/10.0**
- Taught programming to a batch of around 40 first-year students at IEEE Techblocks Bootcamp and acted as a lab mentor for a batch of around 30 second-year students

Dehradun, Uttarakhand

Kendriya Vidyalaya ONGC Dehradun

2015

- CBSE (Senior Secondary) in Science (PCM) – **94.4%**

Dehradun, Uttarakhand

St. Thomas' College

2013

- ICSE (Secondary) in Science (PCM) – **91.67%**

ADDITIONAL ACHIEVEMENTS AND AWARDS

- Ranked **9th** (out of 398) in my University on '[Coder's Bit](#)', a competitive programming contest.
- Ranked **66th** (out of 10,000) on '[Airtel Crack the Code](#)', a competitive programming contest.
- Rated **Expert** on Codeforces (maximum rating: 1632). Username: [vasu_arora](#).

Skills and Technologies

- Proficient in: Java; Spring; Data Structures; Algorithms; AWS Lambda; DynamoDB; Message Brokers (SNS/SQS)
- Familiar With: C/C++; Typescript; DevOps; Dagger; MySQL; Lisp; Git; XML; Other AWS/Cloud Technologies.