

Harshit Rohatgi

Accomplished software engineer with a proven track record of delivering scalable and robust distributed systems across cloud, e-commerce systems and recently type systems. Passionate about Machine Learning as a domain due to its nature of pushing compute boundaries and recent commoditization with GenAI.

Skills

Programming Languages: Java, Typescript, Python, C++

Machine Learning Frameworks: Pytorch, AutoML

Cloud Platforms: AWS, Azure(Novice)

Additional Skills: Project Management

Work Experience and Positions

Sep2021- **Microsoft.com**, *Lead Software Development Engineer*
Current Bengaluru

- Architected and deployed a Formula Remediation Engine which automatically remediates incompatible formulas from compete in an Excel file unblocking key business deliverable to enable 12k tenants/month with 2.3 million files with a team of 8 engineers
- Leading a team of 5 members to improve the reliability of Excel Online product with a focus to bring parity between Excel Online and Excel Desktop under Excel Calc
- Optimized validation of high dimensional features around Excel Formulas using GenAI workflows through test case generation with grounding using Excel Calc engine
- Moderating Design Review Panel as an effort to improve design review process in Excel IDC organization

Feb 2020 - **Amazon.com**, *Senior Software Development Engineer*
Aug 2021 Bengaluru

- Worked as a lead developer for Amazon Sellers organization with a focus on verification for sellers on various Amazon and AWS storefronts.
- Currently lead the development of platform to support Business Process Management over AWS Step Functions.
- Part of the Samurai group providing design consultations for the upcoming project with focus on self-contained web components, data-intensive applications and best practices for building services on AWS.

Apr 2015 - **Amazon Web Services**, *Software Development Engineer - II*
Feb 2020 Seattle

- Worked as one of the core developers for AWS Marketplace team with projects spanning across the entire pipeline.
- Contributed to rendering platform for the website stack with focus on federated architecture and tooling to support it for the teams.
- Bootstrapped the Experimentation Platform for AWS with AWS Marketplace being the first customer. Implemented the service responsible for vending recognition token based on the request identifiers with focus on low latency architecture.

- Led the development of Container support for AWS Marketplace as a part of AWS Re:Invent-2018 launch. Further, worked on tooling support for onboarding AWS Services on AWS Marketplace Platform to build their marketplaces using the platform capabilities.

Sep 2011 - **Amazon Webstore, Software Developer Engineer**

Apr 2015 Hyderabad

- Worked on the tooling chain for seller space in Amazon Webstore.
- Architected the new Site Designing platform using independently operable web components and laid the initial design for theme designing and the interaction of the same with seller tools.
- Worked on AutoCategorization for sellers listing in the inventory management tool. Project had a focus on distributed systems with multiple integrations. Addressed the existing pain points of Reliability and Maintainability by developing tooling to give insights into integration points using distributed tracing framework.

June 2010 – **Deloitte India Consulting Pvt. Ltd., Business Technology Analyst**

Sep 2011 Hyderabad

- Worked as an Analyst in Information Management Service Line of Deloitte Consulting. Developed Proof of Concepts for data visualization using Google Maps API.

June 2009 – **Prologix Software Solutions Ltd., Intern**

July 2009 Worked as a developer in the firm as a part of Summer Internship.

Education

2022- **Masters in Computer Science, University of Texas, Austin**

Ongoing Courses taken: Optimization, Machine Learning, Natural Language Processing, Reinforcement Learning, Deep Learning

2006 - 10 **Bachelor of Technology , Computer Science and Engineering, Vellore Institute of Technology, India, 8.87/10**

2005 - 06 **Class 12th, AISSE, 88.0%**

2003 - 04 **Class 10th, AISSCE, 91.6%**

Activities and Presentations

- Consultant - GenAI workflows
Consulted a startup(Auxi) with their transition to GenAI space from rule engines with the focus on COGS optimization.
- Presentation - Developing services on Native AWS : An introduction,
Introduced developers to new tooling and paradigms for developing microservices on Native AWS.

Interests and Hobbies

- Endurance cyclist – Randonneur