Ketan Verma

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WORK EXPERIENCE

Amazon Web Services
SDE2 • Aug 2019 – Present
- Working on Amazon Elasticsearch Service and Amazon CloudSearch. Actively contributing to Open Distro for Elasticsearch project.
- Launched latest generation EC2 instance-types that improve performance and stability of CloudSearch domains.
- Built several tools to improve the overall on-call experience that help save many person-hours.
- Reduced memory footprint by 88% of a service running thousands of hosts across regions.
- Organized tech sessions and interviewed 60+ candidates for various SDE roles.

LimeTray
Software Engineer • Feb 2018 – Jun 2019
- Full-stack developer and Android developer.
- Designed and developed a configuration-driven transformation framework with request tracing, execution graph visualization and playback.
- Reduced running cost of a service by 70% by building a high-throughput coordinator that helps distributed apps execute tasks without conflicts.
- Reduced the receipt rendering time by 95% by building a canvas-based rendering engine.
- Built a cross-platform print server using Go that expanded our web-based POS support to almost all operating systems, including mobile.

Beatbook Services Private Limited
Co-Founder • Sep 2016 – Jan 2018
- Built an entire platform where thousands of students learn their favourite musical instrument.
- Built mobile apps, an adaptive streaming service (MPEG-DASH), offline support with encryption, video chat for students and mentors with recorded sessions, payment gateway integration and more.

ZipZap Deals Private Limited
Software Engineer Intern • May 2016 – Jul 2016
- Revamped the entire platform from scratch.
- Built apps for users & vendors with a stateless backend to overcome previous scaling limitations, and built a vendor dashboard for fee collection and reporting. Set-up CICD for deployment.

EDUCATION

B.Tech. in Computer Science & Engineering
Amity University, Noida
2013 – 2017 • CGPA 8.82
- Dell EMC Technopreneurial Excellence Corporate Award – Best All Rounder Student
- Excellence in Knowledge Creation Award
- Best Summer Training Award

Languages
English, Hindi and Spanish

TECHNOLOGIES

Programming Languages
Go, Java, JavaScript, TypeScript, Python, Shell

Databases & Persistence
MySQL, MongoDB, PostgreSQL, Cassandra, CouchDB, Redis, ActiveMQ, Kafka, Lucene

Frontend Development
Android, React, Vue.js, HTML5, CSS3, PWA

DevOps
AWS, Docker, Kubernetes, Elasticsearch, Kibana, Jenkins, Prometheus, Grafana, Chronograf

Machine Learning
Keras, TensorFlow, NumPy, Pandas

PROJECTS

AmizOwned
Used by more than 10,000 students across all Amity University campuses worldwide.

SightControl
Uses ML to identify smart devices around us and show contextual information about them over an augmented overlay on our phone screen in real-time.

Bolts Extensions
An open-source project that adds the "Promise" API to Android/Java to avoid "pyramid" code typically found in async code involving callbacks.