Ketan Verma

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WORK EXPERIENCE

Amazon Web Services
SDE2 • Aug 2019 – Present

- Working on OpenSearch, Amazon Elasticsearch Service and Amazon CloudSearch Service.
- Built Data Streams as a top-level construct to manage time-series data in OpenSearch.
- Launched the latest generation instance-types in Amazon CloudSearch to improve performance and stability of domains.
- Identified and fixed various security vulnerabilities in our services.
- Built an automated ticket classification tool using NLP and clustering; helped classify and reduce the on-call ticket count from 2000 to 300.
- Built many automation tools to improve the on-call experience; saving 10+ person-hours every week.
- 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 – Jul 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.
- Built a robust load-testing framework that helped solve scaling issues with CouchDB and ActiveMQ.

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.

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 a CNN to identify smart devices around us to show contextual information about them over an augmented overlay on our phone screen.

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.