

JAYENDRA KUMAR

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EDUCATION

Bachelor of Technology

IIT Kanpur

Major in **Electrical Engineering**

Second Major in Mechanical Engineering

Minor in **Machine Learning & Applications**

Minor in **Algorithms**

Jul 2014 - Jun 2019

WORK EXPERIENCE

Member of Technical Staff - III, Nutanix

Nutanix, Pune

Jul 2023 - Present

- Back-end developer in the R&D - DR & Backup team of Nutanix DR services: a software-driven solution for disaster recovery providing flexible RPO and RTO options on-prem and in the cloud datacenters.
- Work: Feature development related to core DR workflows(for instance, Async replication).
- Technology used: C++, Python, Go, gRPC, Cassandra, Zookeeper.

Software Development Engineer - II, Amazon

Amazon Development Center, Bengaluru

Sep 2021 - Aug 2022

- Part of ProductCX team of Buying Experience organisation which owns product evaluation features on the product Display Page of Amazon Retail Website.
- Work:
 - Design and development of code flow/technology for new and alternate features; and experimenting on existing features, for instance, deduplication of data displayed across multiple features, using A/B testing strategies.
 - Maintaining existing features and redesigning with a goal to move towards simplicity and improve operability.
- Technology used: Java, AWS services(EMR, EC2, Lambda, S3, DynamoDB), Nexus, Hive and proprietary.

Member of Technical Staff - II, VMware

VMware, Bengaluru

Jul 2019 - Aug 2021

- Back-end developer in the Migration team of VMware HCX: an application mobility platform designed for simplifying application migration, re-balancing workloads, and optimizing disaster recovery across data centers and cloud.
- Work: New feature development and code maintenance for HCX migration workflows.
- Technology used: Java, maven, MongoDB, Kafka, Zookeeper, Git, vSphere, VMC (VMware Cloud on AWS)
- Ownership: Bulk (vSphere Replication) migration and RAV (Replication Assisted vMotion) migration services.
- Leadership initiatives:
 - Supervised an intern undergoing 6 months internship from Jan'21 to Jul'21.
 - Conducted knowledge transfer sessions for all new hires in team from May'20 to Aug'21.

Machine Learning Intern

Camp K12 (an ed-tech firm), Gurugram

May 2018 - Jul 2018

- Research on NLP and Computer-vision solutions to improve the firm's product offerings, better target consumers.
- Designed and deployed an RNN based auto-tagger for the firm's mentor-match program and an auto-tagger for firm's Ethereum-queries forum.

LANGUAGES AND RELEVANT COURSEWORK

C, **C++**, Python, Java

Data Structures & Algorithms, Algorithms - II, Parallel Algorithms, Intro to Machine Learning, Intro to NLP

RELEVANT ACADEMIC PROJECTS

Visual Question Answering

Jan 2018 - Apr 2018

Academic project: Natural Language Processing

- A Machine learning group project for answering questions based on a shown image.
- Explored a variety of techniques including the then state of art approach and implemented three different kind of models: Joint embedding model with attention on image, Bayesian model, and a novel generative deep-Bayesian model.

An Efficient Full-frame Video Stabilization based on Feature Matching

Jan 2018 - Apr 2018

Academic project: Modeling and Representation techniques for Images

- A project utilizing feature matching technique instead of mainstream optical flow technique for video stabilization.
- Subsequent parts of the project included algorithms for feature-based motion estimation, motion smoothing, and image composition.

Auto Farm

Mar 2018 - Apr 2018

Academic project: EC Laboratory, IIT Kanpur

- An IOT-based working prototype of an automated farm using sensors to gather data via Arduino, processing it on-board, and forwarding the appropriate command to actuators for controlling artificial lighting, irrigation, and shade.
- Integrated the data signals with a basic mobile application and came up with the POC of actuators controlled by the output of a model targeting the yield.

OTHER SCHOLASTIC ACHIEVEMENTS AND POSITIONS OF RESPONSIBILITY

Secured **All India Rank 06** in NIFT B. ftech. entrance exam. 2014

Coordinator, Creative Cell, Show Management, 51st Inter-IIT Sports Meet 2016

Executive Design, Cultural Council, Student Gymkhana, IIT Kanpur 2015-2016

Webmaster, Cultural Council, Student Gymkhana, IIT Kanpur 2015-2016