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Rahul Kumar

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Experience

Member of Technical Staff 3 — **Nutanix Inc., San Jose** — **Feb 2020 – Present**

- Working with Nutanix Flow (Microsegmentation) team which provides network visibility and creates segments using security policies to protect users, apps and data from cyber threat.
- Technologies used: Python, Golang, Java, Json, Google Protobufs, Cassandra

Member of Technical Staff Intern — **Nutanix Inc., San Jose** — **May 2019 – Aug 2019**

- Worked with Nutanix Flow Team. Worked on a visualization tool (cadmus) to capture and visualize network traffic to/from virtual machines defined in a security policy.

Graduate Research Associate — **Ohio State University, Columbus** — **Aug 2018 – May 2019**

- **Tensor Transposition Library for GPUs (TTLG):** TTLG is a library to efficiently transpose a n-dimensional tensor.
  - Wrote new CUDA kernel functions and refactored some existing kernels to improve the performance by over 25%.
  - Added different machine learning models evaluate and select the best kernel functions.
- Technologies used: Nvidia Cuda, C++, Python.

Software Development Engineer — **Oracle India, Bangalore** — **Aug 2015 – Jul 2018**

- **Joint Venture Management (JVM):** JVM is an application suite to manage a merger & acquisitions of companies.
  - Designed and developed the Overhead Module of JVM from scratch.
- **Orchestration Studio:** This is an IoT (Intenet-of-Things) tool which connects JDE enterprise apps to the external devices.
  - Refactored several applications to include the features supported by Orchestration Studio.
- Re-factored applications, fixed bugs and improved performance by optimizing database queries in several modules such as Advanced Job Forecasting, Health & Safety Management, Contract & Service Billing etc.
- Technologies used: C++, Java, Oracle ADF, Groovy, Javascript, JSON.

Software Developer Intern — **ShoreTel Inc., Bangalore** — **Apr 2015 – July 2015**

- Debugged and fixed compatibility issues between Shoretel Architectural components and AWS while working on providing a proof of concept (POC) to migrate ShoreTel components from private cloud to public cloud.

Education

Ohio State University — **Columbus, OH** — **Aug 2018 – Dec 2019**

- **Masters in Computer Science** — **GPA: 3.53/4.0**
- Related Coursework: Algorithms, Advanced Operating Systems, Introduction to Parallel Computing, Network Security, Communication Networks, Fundamentals of Programming Languages, Distributed Enterprise Computing

BMS College of Engineering — **Bangalore, India** — **Aug 2011 – Jun 2015**

- **Bachelors in Computer Science & Engineering** — **GPA: 8.88/10.0**
- Related Coursework: Algorithms, System Software, Cloud Computing, Computer Networks, Computer Organization & Architecture, Storage Area Networks, Theoretical Foundations of Computation.

Languages and Technologies

- C, C++, Golang, Java, Python, MySQL, MongoDB, HTML, JavaScript, MATLAB
- Linux, Docker, Kubernetes, jQuery, Bootstrap, AngularJS, REST, Git

Projects

- **Migrate Karbon Execution Plane to AWS | Golang, Kubernetes, JSON, AWS** | Team of 4
  - Karbon is the Kubernetes Solution by Nutanix for on-prem cluster.
  - Provided PoC to migrate the Karbon execution plane to AWS with the control plane in On-prem Nutanix Cluster during the U-Hack (Interns' Hackathon) Week.
- **Chrome Extension to easily manage JDE inventory | Javascript, Chrome APIs** | Team of 2
  - Created a chrome extension for inventory management application at Oracle JDE Ideathon challenge.
  - Using this extension, the frequently used items and the group of items were stored in the local database and could be added to application grid in a single click.
- **Object Detection using Fast R-CNN and YOLO | Python (Scikit, Keras, openCV)** | Team of 2
  - Identified and located cars and stop signs on the road in images using Fast R-CNN.
  - Designed a model using YOLOv3, that leveraged from transfer learning using VGG to detect the same objects as in Fast R-CNN. Compared the performance of YOLO model with Fast R-CNN.