# Rahul Kumar

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## Experience

**Microsoft Corp**                                                                      Mountain View, CA
Senior Software Engineer                                                                 Feb 2022 – Present

- Led the design and delivery of scalable features, including Scalable Gateway SKU (supporting dynamic scale-in/scale-out), 4K MTU support, auto-healing functionality to enhance reliability and performance across enterprise deployments.
- Developed auto-healing feature for ExpressRoute gateway VMs, reducing downtime by 80% and significantly lowering on-call duties..
- Identified around $100K/month of wasted COGS due to zombie Expressroute gateway VMs. Developed an automated cleanup tool "Janitor" to delete them and trigger alerts for manual intervention when needed.
- Collaborated across teams to drive architectural improvements ensuring high availability and resilience for Azure ExpressRoute.
- Tech stack: C#, .Net, Powershell, Git

**Nutanix Inc**                                                                         San Jose, CA
Member of Technical Staff 3                                                              Feb 2020 – Feb 2022

- Contributed to Nutanix Flow (Microsegmentation), designing and implementing policy-based controls using Open vSwitch (OVS) to securely segment data center and Virtual Desktop Infrastructure (VDI) traffic.
- Developed "Cadmus", a traffic visualization tool in the AHV hypervisor, aiding customers in configuring robust security policies.
- Winner of Hackathon 7.0 under the "Strenthen the Core" category.
- Tech stack: Python, Golang, Java, Json, Cassandra, Kafka, Git, OVS etc.

**Oracle India**                                                                        Bangalore, India
Applications Engineer                                                                    Aug 2015 – Jul 2018

- Contributed significantly to the implementation of ERP modules such as Joint Venture Management and Advanced Job Forecasting.
- Fixed hundreds of bugs across various enterprise applications.
- Optimized application performance through code refactoring and improved database query efficiency.
- Enhanced ERP modules to integrate IoT features via Orchestration Studio.
- Tech stack: C++, Java, SQL, JSON

## Education

**Ohio State University (Columbus, OH)**                                                 Aug 2018 – Dec 2019
Masters in Computer Science                                                              GPA: 3.53 / 4.0

- Graduate Research Associate in HPC (High Performance Computing) Research Labs.
- **Coursework:** Design and Analysis of Algorithms, Advanced Operating Systems, Fundamentals of Programming Languages, Introduction to Parallel Computing.

**BMS College of Engineering (Bangalore, India)**                                        Sep 2011 – Jun 2015
Bachelors in Computer Science & Engineering                                             GPA: 8.88 / 10.0

- **Coursework:** Algorithms, System Software, Cloud Computing, Computer Networks, Computer Organization & Architecture, Storage Area Networks, Theoretical Foundations of Computation.

## Technologies

- **Languages:** Python, C#, Java, Javascript, Golang, MySQL, MongoDB

- **Databases:** MySQL, MongoDB, Cassandra

- **Cloud & Tools:** Azure, Docker, Kubernetes, Linux, Git, PowerShell

- **Core Concepts:** Distributed Systems, Cloud Computing, Networking