

Rohit Shyla Kumar

rohitshylakumar@protonmail.com || <https://rohit-shyla-kumar.github.io/>

EDUCATION & CERTIFICATIONS

RedHat Certified Engineer (RHCE)

Expertise in automation with Ansible (May 2023)

RedHat Certified Systems Administrator (RHCSA)

Expertise in Linux System Administration (Mar 2023)

City University of Hong Kong

Bachelor of Science in Creative Media (Aug 2016 – Jun 2019)

CGPA: 3.71 Dean's List of Honor

SKILLS

- Impeccable spoken and written communication skills in English
- Deep knowledge on UNIX platforms and **operating system fundamentals**
- Experienced with C, C++, JAVA, Python, JavaScript, C#, Ansible, Jenkins CI/CD pipelines
- Experienced with Containers and Container Orchestration (Podman, Docker, Kubernetes)
- Architecting technical solutions from a first principles mindset, designing, and developing algorithms
- **Configuring infrastructure as code**, building APIs, **Automating Testing, Maintenance & Reporting.**
- **Troubleshooting** issues from the Operating System layer to Application layer for distributed software
- Experience running hybrid environment of on-premises and cloud services
- In depth experience working in large organisations **taking novel automation initiatives from drawing board to production systems**, distributed across regions and platforms
- Excellent at moving across domains to fulfil project requirements at the microscopic and macroscopic level, managing stakeholders, planning AGILE development cycles and uplifting team member skills

EMPLOYMENT SUMMARY

HSBC

Jul 2019 – Present

Technical Specialist, DevOps & Automation Engineer (Jan 2024 – Present)

- Solving the secret zero problem using automation to rotate keys in HashiCorp Vault. Created a wrapper for devops teams to use vault to manage and use secrets without any humans involved!
- Developed crucial automations for our Internal Cloud Platform such as
 - o Server build and provisioning
 - o Provisioning landing accounts for tooling agents and configuring them with Vault
 - o Configuration drift remediation - to fix CVEs caused by central OS configurations
 - o SSL Certificate Renewal
- **Work directly impacting over 30k servers across HSBC estate**

Consultant Specialist, Linux Systems Engineer (Aug 2021 – Mar 2024)

- Use my unique skill set as a Linux system administration with experience in programming - tasked to transform our current RHEL estate using automation to be more resilient and efficient
- **Certified Enterprise Engineer** - Role Model of my Technical and Leadership training cohort
- Jenkins, Ansible, Python, and shell scripting to create automation pipelines
 - o Produce RHEL OS layer 1 images used globally throughout HSBC
 - o Analyse vulnerability data and report fix information to service owners globally
- CI/CD for APIs consumed by application teams throughout the bank
- Application and infrastructure monitoring with Splunk and xMatters
- **Work directly resulted in a decrease of time taken to prepare and release Linux Images from 10 days to 2 days. Increasing the efficiency of the team and consistency of the product**

Technology Graduate (Jul 2019 — Aug 2021)

- **Project Lead and engineer for the infrastructure data dashboard within Enterprise Services**
- Automating workflows across the bank's global functions, such as
 - o End to End patching of our internal cloud infrastructure
 - o Consolidating vast amounts of diverse data from different regions and generating insights
- Designing and implementing system level APIs to monitor patch status, build version and other system fundamentals from cloud and on-premise machines
- API design using Anypoint and implementation using Mule, Ansible, Puppet, JAVA

Visionaries 777

Sep 2018 – Feb 2019

Data Science Intern

- Data visualisation and analysis for a project management platform using Python
- Computer vision and augmented reality application with C# in Unity for Hella Gutmann and BMW

Composers and Authors Society of Hong Kong

Jun 2018 – Sep 2018

IT Intern

- Development of AI systems to identify copyright violations and lyric generation
- Working with Oracle databases for big data analysis using Python and PL/SQL

Horus Intellisys

May 2017 – Sep 2017

Design Engineer Intern

- Systems programming and classifier tuning for India's first Advanced Driver Assistance System
- C and C++ based application heavily focused on **optimization of a Computer Vision application**. Used gdb and g++ to debug and build the application in the Linux environment

PROJECTS

AI for General FPS - Research and Development

May 2018 — May 2019

Autonomous agents that can play multiple first-person shooter games like Doom and Counter Strike

Aid for Visually Impaired Bowlers - Software Engineer

Nov 2017 — May 2019

Image processing application that assists blind bowlers. Funded by Jockey Club Youth Empathy Project

Data Science for India - Curriculum Developer

May 2017 — Dec 2018

Program based out of UC Berkeley seeking to promote the interdisciplinary field of data science in India through outreach

AWARDS & HONOURS

University Competitive Programming Team (2018)

HKSAR Government Scholarship (2018-19)

HKSAR Talent Development Scholarship (2017)

The Best of the Best Awards - Best Innovation (2017)

Smarter Life Aided by Robots - Built a medicine dispenser robot - 1st place (2017)

1st Place from TEDY Makathon - Aid for Visually Impaired Bowlers (2017)

World Federation of the United Nations Association's International Model UN - Won in the Asia-Pacific category at the United Nations Headquarters (2017)

INTERESTS

Philosophy, ancient cultures, international relations, investing, theatre, football, cricket, gaming, writing