

Sashwat K

LinkedIn: [linkedin.com/in/sashwatk](https://www.linkedin.com/in/sashwatk)
Portfolio: sashwat.in

Email: hi@sashwat.in
GitHub: github.com/sashuu69

PROFILE

Experienced systems engineer with a strong background in cloud infrastructure, automation, and confidential computing. Passionate about designing secure, scalable, and production-grade systems.

EXPERIENCE

- IBM ISDL** Hybrid
Senior Engineer (Full Time) Jul 2022 - Present
 - LinuxONE Baremetal on VPC in IBM Cloud Project:**
 - Developed and maintained SLES and RHEL OS for LinuxONE Baremetal on VPC (Virtual Private Cloud) for IBM Cloud.
 - Developed and automated the building of OS images that supported zVSI (KVM on Z) and LPAR on IBM Cloud VPC.
 - Developed automation scripts for maintaining LinuxONE Baremetal.
 - Contributed to the implementation of SSC (Secure Service Container) on LinuxONE Baremetal on VPC.
 - HPVS (Hyper Protect Virtual Server) On-Prem and IBM Cloud Confidential Computing Project:**
 - Developed and maintained a Terraform provider for HPVS, supporting the latest releases for both on-prem and IBM Cloud.
 - Developed new systemd services and updated bootloader to add features such as static IP, contract expiration, and custom tag support in logs.
 - Developed scripts to automate manual release tasks to reduce manual effort for DevOps team.
 - Addressed customer issues related to the HPVS Terraform provider.
- AMD Inc.** Hybrid
Silicon Design Engineer (Full Time) Feb 2022 - Jul 2022
 - AMD - Xilinx Integration:** Help update infrastructure to help bring synergy between AMD and Xilinx systems Revision Control System, License Servers etc.
 - Programming:** Developed and maintained scripts for maintaining ICManage servers (users, workspaces etc), FlexLM license files, benchmarking new servers
 - Collaboration:** Delegate with Silicon Engineering teams and IT to complete projects.
- Xilinx Inc. (Acquired by AMD Inc.)** Hybrid
CAD Engineer (Full Time) Jul 2021 - Feb 2022
 - Management:** Implement policies for LSF queues and Storage.
 - Programming:** Develop and maintain ICManage Library creation.
 - Documentation:** Create, update and document processes using Jira and Confluence.
- Xilinx Inc. (Acquired by AMD Inc.)** Hybrid
CAD Infrastructure DevOps Engineer (Contractual) Jun 2020 - Jul 2021
 - Programming:** Developed and maintained script to maintain server netgroup files of hosts in LSF clusters.
 - Maintenance:** Maintain ICManage GDP, LSF application profiles, LSF License Scheduler and EDA tools.

EDUCATION

- College of Engineering Trivandrum** Thiruvananthapuram, India
MCA; GPA: 7.0 Aug 2017 - Apr 2020
- Christ Nagar College** Thiruvananthapuram, India
BCA; GPA: 7.2 Jun 2014 - May 2017
- Kendriya Vidyalaya AFS Akkulam** Thiruvananthapuram, India
High School Computer Science Apr 2012 - Mar 2014

SKILLS SUMMARY

- Languages:** Go, Python, Bash, C, Data Structures and Algorithms
- DevOps & Tools:** Terraform, Docker, Git, Jenkins
- Infra & Platforms:** Linux, Systemd, IBM Cloud, LPAR, zVSI, z/VM
- Concepts:** Virtualization, Confidential Computing, Infrastructure as Code (IaC)

PROJECTS

- **Portfolio Website:** A portfolio website anybody can use along with containerization and Terraform to generate temporary SSL certificates and host on AWS. Available at GitHub - sashuu69/portfolio-website.
- **Fingerprint-based Exam Authentication System:** Biometric verification system to prevent impersonation in exams. Arduino-based handheld device for authenticating students and invigilators.
- **IoT Water Level Indicator:** Automated tank and garden watering system using moisture sensors and NodeMCU. Available at GitHub - sashuu69/iot-water-level-indicator.
- **ATmega328P Production-Ready Board:** Compact Arduino UNO-compatible board (SMD and DIP) with Eagle design files. Available at GitHub - sashuu69/sph-mc-one.

HONORS AND AWARDS

- Significant Contributor, TCAP (IBM) - Open source contributions towards terraform provider for hyper protect virtual servers
- Growth Award 2025, QCAP (IBM) - For significant contributions towards Hyper Protect Virtual Servers (HPVS) and Z Virtual Server Instances (zVSI)
- Star Performer, All India MCA Meet 2019 (NIT Trichy)

VOLUNTEER EXPERIENCE

- | | |
|---|---|
| • Internet of Things Lab, College of Engineering Trivandrum
<i>Conducted workshops on Arduino, Raspberry Pi, BeagleBone, Python</i> | Thiruvananthapuram, India
<i>Oct 2018 – Apr 2020</i> |
| • RASA Hams - Ham Radio Community
<i>Collaborated with local amateur radio enthusiasts for learning and experimentation</i> | Thiruvananthapuram, India
<i>Jan 2018 – Present</i> |