

Sashwat K

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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 bringing 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 like static IP, contract expiry and custom tags support in logs.
Developed scripts to automate manual release tasks to reducing manual effort.
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

- **Fingerprint-based Exam Authentication System:** Biometric verification system to prevent impersonation in exams. Handheld Arduino-based device for authenticating students and invigilators.
- **IoT Water Level Indicator:** Automated tank and garden watering system using moisture sensors and NodeMCU. Available at GitHub.
- **ATmega328P Production-Ready Board:** Compact Arduino UNO-compatible board (SMD and DIP) with Eagle design files. Available at GitHub.

HONORS AND AWARDS

- Significant Contributor, TCAP (IBM) Open source contributions
- Star Performer, All India MCA Meet 2019 (NIT Trichy)

VOLUNTEER EXPERIENCE

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