

# Sashwat K

Portfolio: sashwat.in

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## 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 features like custom tags for HPVS logs to LogDNA for easier filtering and contract expiry settings for instances.  
Developed scripts to automate manual release tasks, 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 ICMange 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 ICMange 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 ICMange GDP, LSF application profiles, LSF License Scheduler and EDA tools.

## EDUCATION

- College of Engineering Trivandrum** Thiruvananthapuram, India  
*Post Graduation - Master in Computer Applications; GPA: 7.0* August. 2017 - April. 2020
- Christ Nagar College** Thiruvananthapuram, India  
*Graduation - Bachelor in Computer Applications; GPA: 7.2* June. 2014 - May. 2017
- Kendriya Vidyalaya AirForce Station Akkulam** Thiruvananthapuram, India  
*High School - Computer Science* April. 2012 - March. 2014

## SKILLS SUMMARY

- Languages:** Go, Python, Bash
- Tools:** Git, Docker, Terraform, Ansible
- Platforms:** Linux

## PROJECTS

- Fingerprint-based Exam Authentication System:** The Fingerprint-based Exam Authentication with Exam Management Automation is a hardware-software combination for exam automation and student-teacher verification using fingerprint. The hardware is a handheld device used by the invigilator to authenticate the invigilator himself and the students via their fingerprint to avoid the chances of student impersonation during exams. This project was developed as a part of the final year project for the course.
- IOT Water Level Indicator:** The IOT Water Level Indicator is an automated pump control for filling tanks based on water level, running garden sprinkler system based on garden moisture level and running farm sprinkler system based on specific time. This project was developed for the department. This project has been done as my PG degrees mini project and is available at Github: IOT Water Level Indicator
- ATmega328p Production Ready Board:** The project contains the eagle files for an Arduino uno clone with a small size. The design emphasises on production-ready design. Users can design hats for the device. The board design is available for both normal and SMD packages. The project is available at GitHub: ATmega328p Production Ready Board

## HONORS AND AWARDS

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- Star Performer, All India MCA Meet 2019, NIT Tiruchirappalli - Award for best overall performance
- Winner of Phoenix, All India MCA Meet 2019, NIT Tiruchirappalli - Award for best interview performance
- Winner of Technothon, All India MCA Meet 2019, NIT Tiruchirappalli - Hackathon Competition
- Winner of Quibble, All India MCA Meet 2019, NIT Calicut - Technical and Non-Technical Quiz

## VOLUNTEER EXPERIENCE

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| • <b>Internet of Things Lab, College of Engineering Trivandrum</b>              | Thiruvananthapuram, India  |
| <i>Took workshops on Arduino, Raspberry Pi, Beagle bone and Python.</i>         | <i>Oct 2018 - Apr 2020</i> |
| • <b>RASA Hams - Ham radio community</b>  | Thiruvananthapuram, India  |
| <i>Group of Ham radio operators/enthusiasts who united to learn Ham radios.</i> | <i>Jan 2018 - Present</i>  |