

# Sashwat K

sashuu6.github.io , sashwat.in

Email : sashwat0001@gmail.com

Mobile : +91 8281962557

## EDUCATION

---

- **College of Engineering Trivandrum (CET)** Thiruvananthapuram, India  
*Post Graduation; Masters in Computer Application* August. 2017 – April. 2020
- **Christ Nagar College** Thiruvananthapuram, India  
*Graduation; Bachelor in Computer Application* June. 2014 – May. 2017
- **Kendriya Vidyalaya AirForce Station Akkulam** Thiruvananthapuram, India  
*High School; Computer Science* April. 2012 – March. 2014

## EXPERIENCE

---

- **Appfabs PVT LTD** Technopark, Thiruvananthapuram, India  
*Intern* May 2018 - September 2018
  - **Cyber security:** Cybersecurity is the protection of internet-connected systems, including hardware, software and data, from cyberattacks. In a computing context, security comprises cybersecurity and physical security – both are used by enterprises to protect against unauthorised access to data centres and other computerised systems.
- **IoT Lab** CET, Thiruvananthapuram  
*Student faculty* September 2017 - April 2018 & October 2018 - January 2019
  - **Arduino UNO:** The Arduino UNO is an open-source micro-controller board based on the Microchip ATmega328P micro-controller and developed by Arduino.cc. As a member of student faculty, I was given the chance to take classes on Arduino UNO to the students of CET.
  - **Raspberry Pi:** The Raspberry Pi is a tiny and affordable computer that can be used for practical projects and to learn programming. I took workshops on Raspberry Pi.

## WORKSHOPS HANDLED

---

- **Raspberry Pi Workshop** CET, Thiruvananthapuram  
*IOT Lab* 2018
  - **Python:** This workshop was conducted by a team of 4 students including me. In this workshop, I handled python session.
- **Arduino Workshop** CET, Thiruvananthapuram  
*IOT Lab* 2018
  - **Arduino:** This workshop covered all the sections from Arduino basics, embedded C, micro controller vs micro processor and few basic programs.
- **Beaglebone Workshop** CET, Thiruvananthapuram  
*IOT Lab* 2018
  - **Linux and Python:** This workshop was conducted by a team of 4 students including me. In this workshop, I handled Linux and Python session.
- **Raspberry Pi Workshop** CET, Thiruvananthapuram  
*Drishti* 2018
  - **Pi:** This workshop was conducted at Drishti (Technical Fest, CET). The session included about introduction Raspberry Pi, Linux, working remotely, Python, creating Pi server and home automation using Pi.
- **Git Workshop** Muthoot Institute of Technology and Science, Kochi  
2019
  - **Git:** In this workshop, I took session on Git and Github.

## ACHIEVEMENTS

---

- **HacktoberFest** DigitalOcean and GitHub  
*Online Event* *October 2018 & 2019*
  - **Online Event:** Make Minimum 4 pull requests
- **Ignite' 19** NIT Suratkal  
*All India MCA Meet* *October 2019*
  - **Nexus - 1st prize:** Non - Technical, Team event - 5 members
- **Version' 19** NIT Tiruchirappalli  
*All India MCA Meet* *September 2019*
  - **Technothon - 1st prize:** Project presentation event. (Individual event)
  - **Phoenix - 1st prize:** Interview competition for KLA's Internship. The participants are selected based on their overall performance in the whole event. (Individual event)
  - **Star Performer:** Given for best performance in the 2 day event.
- **Nakshatra' 19** NIT Calicut  
*All India MCA Meet* *February 2019*
  - **Quibble - 1st prize:** Non - Technical quiz, Team event - 2 members
  - **Enigma - 2nd prize:** Technical quiz, Team event - 2 members

## MY PROJECTS

---

- **IOT Water Level Indicator:** The IOT Water Level Indicator is automated pump control for filling tank based on water level, run garden sprinkler system based on garden moisture level and run farm sprinkler system based on specific time. This project was developed for the department. This project has been done as my PG degree's mini project and is available at [https://github.com/sashuu6/cet-mca-s5-miniproject-iot\\_based\\_water\\_level\\_indicator](https://github.com/sashuu6/cet-mca-s5-miniproject-iot_based_water_level_indicator).
- **3 Factor Authenticated Door Lock:** A 3 factor authenticated door lock using Arduino UNO(Atmega328p), 74HC595 multiplexer, key switch, keypad and RFID. This project is available at <https://github.com/sashuu6/3-factor-authenticated-door-lock>.
- **Digital Clock with Birthday Alarm:** The digital clock with birthday alarm is a DIY alarm built using Arduino UNO, Adafruit OLED and DS 3231 RTC module. This project is available at <https://github.com/sashuu6/digital-clock-with-birthday-alarm>.
- **vOne:** My version of Arduino Uno for board isolation. This project is available at <https://github.com/sashuu6/vOne>.
- **Realtime Barcode Scanner:** My version of Barcode Scanner developed using Python and OpenCV. This project is available at <https://github.com/sashuu6/realtime-barcode-scanner>.
- **Python Fingerprint Recognition:** In this contributed project, I have fixed the python errors due to which the program doesn't run. Parent project-<https://github.com/kjanko/python-fingerprint-recognition>. My project-<https://github.com/sashuu6/python-fingerprint-recognition>.

## PROGRAMMING SKILLS

---

- **Languages:** Python, C++, Javascript, Dart **Technologies:** Git, Linux, Docker
- **Softwares:** Visual Studio Code, Arduino IDE, Qt Creator **Design Tools:** Fritzing