

# Akhil A B

<https://sashuu6.github.io>

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## EDUCATION

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- **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

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- **TechWithUs PVT LTD** CET, Thiruvananthapuram  
*Software Developer*  
*March 2019 - Present*
  - **ExamMarker:** ExamMarker is a product developed using python, electron, javascript, Web and PHP. I contributed in developing the sections that used python, electron and javascript.
- **IoT Lab** CET, Thiruvananthapuram  
*Student faculty*  
*September 2017 - 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.
- **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.

## PROGRAMMING SKILLS

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- **Languages:** Embedded C, Python, Javascript, Bash Script
- **Technologies:** Git, Linux, Docker, Electron

## WORKSHOPS TAKEN

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- **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:** In this workshop, I took session on Git and Github.

## CONTRIBUTED PROJECTS

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- **Python Fingerprint Recognition:** In this 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>.

## MY PROJECTS

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- **3-factor-authenticated-door-lock:** A 3 factor authenticated door lock using 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>.
- **youtube-sub-count:** The 'Youtube Subscriber and View Counter' is a device made using NodeMCU (ESP8266) and OLED display. You can use this device to view your youtube's subscriber and view count. This project is available at <https://github.com/sashuu6/youtube-sub-count>.
- **simple-home-automation:** A simple home automation using Raspberry Pi Zero W, Particle.io, Google assistant and IFTTT. This project is available at <https://github.com/sashuu6/simple-home-automation>.
- **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>.