Akhil A B

https://theonlyakhil.github.io

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Education

- **College of Engineering Trivandrum (CET)** — Thiruvananthapuram, India
  Graduation; B.Tech Applied Electronics and Instrumentation — *August. 2017 – April. 2020*
- **Technical Higher Secondary School Muttada** — Thiruvananthapuram, India
  Higher Secondary; Electronics Service Technology; Score 78% — *June. 2014 – May. 2017*
- **Technical High School Sreekaryam** — Thiruvananthapuram, India
  High School; TV Maintenance and Radio; Score: 88% — *April. 2012 – March. 2014*

Experience

- **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

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

Workshops Taken

- **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.

Contributed Projects

- **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

- **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 DYI 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.