

Akul Santhosh

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Education

BTech Computer Science &
Engineering | SOE CUSAT | 2020 |
GPA:8.98/10 | CS GPA:9.37/10

Class XII | Computer - Maths
Sree Narayana Kollam | 2015 | 89.2%

Skills

Languages : C, C++, Python, Swift,
Java, Shell, Basics of R and Matlab

WebDev : HTML, CSS, JS, Django

Simulation : IBM Q, Swift
Playgrounds, Arduino, DragonBoard

Communication : English, French

Extra-Curricular

Placement Coordinator @ Central
Placement Office CUSAT
- Chosen as student representative
- Responsible for interacting with
companies
- Organised placement events and job
fairs

Organiser @ Neucode Challenge for
Neudesic India
- Handled technical & marketing
- Conducted as part of Dhishna
techfest

President @ Cusat Coding Club
- Organised monthly coding
competitions
- Taught students on fundamental
concepts in CS

Organiser @ Make-a-ton
- 24hr Hackathon with theme "Build
over Buy"
- Handled logistics, technical &
marketing

Volunteer @ Kerala Flood Relief
- Handled logistics for collecting
damage report in 10000 homes in
Kochi
- Recognised by district collector
Kochi

Work Experience and Internships

Sept'18-Pre Cofounder Trebuchet, Kochi
Cofounded a startup trying to bridge the gap between consumers
& virtual products by using augmented reality & machine learning
to allow users to try on clothes virtually before they buy them.
Incubated in central govt funded incubator CITTIC

Jan-May'19 Intern IRAA - Academic Relations, Cusat
Designed & built a platform for computerising counselling process
for Cochin University which improved the experience of more than
5000 students during admission.
Backend was done in Django and is currently used in admissions.

Aug'18 Intern SOE Library, CUSAT
Created a script to automatically setup the environment and install
Dspace on computers inside library. Reduced human effort sub-
stantially. The script was made open source and also distributed
in workshops conducted by SOE CUSAT.

May-Jun'18 Summer Intern Hindustan Aeronautics Limited, Bangalore
Worked on creating a dashboard that compared helicopter trial
runs to predict abnormal functioning in components, thereby re-
ducing the time required for inspection by 3x.
Understood the basic aerodynamics of helicopters and the real-
time OS used by them.

Research and Projects

Mar'19-Pre PiID - Intelligent Pill Dispenser
An intelligent pill dispenser with alexa integration, a deep learning
model analyses health data, makes intelligent predictions and dis-
penses pill accordingly. The hardware was built using a raspberry
pi and AWS as the cloud service.
Demo: <https://www.youtube.com/watch?v=00aMeKgWskw>

Sept-Apr'19 ARWare - Realtime Shoe Augmentation Mini Project
An iOS app was created that does real-time mobile semantic seg-
mentation of foot to detect feet of user, frame optimising algo-
rithms are used in conjunction with ARKit to create a augmented
reality experience by placing a 3D model of a shoe on top of the
feet.
Demo: https://www.youtube.com/watch?v=jVw1KTLIS_A

Jan-May'17 NoQStore - Automated Convenience Store
Created a model of Amazon Go with cheaper components and
voice guided systems. The backend was implemented using fire-
base, frontend was an iOS app with voice guidance and hardware
using load cells and raspberry pi.
Github: <https://github.com/akulsanthosh/noQ>

Achievements

Mar'19 Wipro Hackathon on Industrial IOT
Won 1st place, was offered echo devices and internship offer at
Wipro IOT centre for innovation.

Jan'18 Techstars Startup Weekend
Won *most innovative product award* for creating NoQStore.

Oct'17 C++ NPTEL IIT Kharagpur
Top 2% in India on Nptel C++ certification Exam.

2016-Pre College Competitions
Won numerous awards in various college competitions.

References

Coordinator Dr Sheena Mathew Professor | SOE CUSAT
Phno : 9446509508
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