Dennis S Cherian

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EDUCATION

MTECH IN COMP. SC.
Rungta College of Engg and Technology
2019-2022 · CPI : 8.72

BE (CSE)
Bhilai Institute of Technology
2014-2018 · CPI : 8.59

AISSCE, CBSE
BSP Senior Secondary School (10), Bhilai · 2014
Aggregate : 89.00

AIHSCE, CBSE
BSP Senior Secondary School (10), Bhila · 2012
Cum GPA : 10.0

LINKS

Github:// **dennis221**
LinkedIn:// **dennis-s-scherian**
LeetCode:// **dennis35**
Potfolio:// **dsc**

COURSEWORK

POST GRADUATE
Advanced Operating System
Java Programming Appl.
Advanced DBMS
A.I. and Applications
Dissertation -
Two Proactive Modules for the Drowsy Driving State:
Drowsiness Detection and Simulated Self-Driving
(Teaching Asst for Computer Networks)
(Teaching Asst for Physics)

UNDERGRADUATE
Data Structures and Algorithms
Computer Concpt and Web Tech.
Problem Solving using C
Object Oriented Prog. (OOPS) C++
Cryptography Network Security

SKILLS

Experienced:
C++/C • Python • JavaScript
Intermediate:
Java • HTML • CSS, Bootstrap • NodeJS • ReactJS • REST API • Microservices
Familiar:
Dockers/Kubernetes • DevOps • AWS • MySQL • Red Hat Enterprise Linux• JSP • JSON • Ansible

PROJECTS

DRIVER DROWSINESS DETECTION ON THE RASPBERRY PI
- Incorporated Polling I/O technique that scales up detection speed of Pi Cameras by 194 percent.
- Raspberry Pi 3B+ is used for the project. Python is prim. lang.
- Open CV, Haar Cascade classifiers, Numpy, Pandas and Matplotlib.

SELF-DRIVING SIMULATION ON THE UDACITY SIMULATOR
- Inspired by the NVIDIA's DAVE-2 CNN architecture.
- Features Lane-driving even when lane-markings are missing.
- TensorFlow Keras and Flask functionalities

ONLINE COMMAND LINE AND TUTORIAL WEBSITE
- A website that enthuses Linux/ Unix OS learners without tampering the security of servers.
- Client-side UI provides tutorials about commands and a responsive command line.
- Server-side that over Dockers keeps the container images of Unix and Linux OS running and executes user queries given at UI.

NOTE-MAKER APP
- Used React components enhance the re-usability of codes.
- Features React Hooks, Express Routing, MongoDB and other Node modules.

ACHIEVEMENTS

- Achieved more than 95 percent in Mathematics-I,II and III(UG).
- GATE 2022 Qualified (AIR : 4696)
- NET Qualified (Assistant Professor) Dec 2020 cycle

PUBLICATIONS

[1] D. S. Cherian, S. Bhad, A. Kushwaha, and N. Sao. Two proactive modules for the drowsy driving state. *Journal of Optoelectronics Laser*, Apr 2022.

[2] D. S. Cherian, S. Bhad, A. Kushwaha, and N. Sao. A review on drowsiness detection using raspberry pi and recent advancements in physiological techniques. *International Journal of Mechanical Engineering*, Feb 2022.

VOLUNTEERING

ST. THOMAS MISSION, BHILAI Jul 2019 - May 2020
- Estd. by first Metropolitan of Calcutta Diocese, MOSC (HG Dr. Stephanos Theodosius) in 1972.
- Contributed to humanitarian activities like Feeding the Poor, Meal-of-a-Time to hospitalized.
- As well as in farming of rice and other cereals.

LANGUAGES KNOWN

- English (Professional Working) • Hindi (Full Prof.) • Malayalam (Full Prof.)