Shreevari SP

System software | Video codecs | Microservices

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EXPERIENCE

HashedIn – Since 02/2020
Building scalable microservices using Java Spring Boot and AWS infrastructure.

Google Summer of Code – 05/2019 - 09/2019
rav1e - Rust AV1 video encoder [Rust + ASM]
Experimenting to integrate activity masking and spatial adaptive quantization in Rate-Distortion Optimization for improvement in psychovisual quality.

PROJECTS

RedMask
Dynamic data masking using Redshift table view interface and on-the-fly query modification with a responsive management console dashboard.

Key contribution: Architecture, back-end

Tech: AWS Redshift, Flask, ReactJS, AWS

Report collector
Web application used to manage weekly progress reports of team via a telegram bot.

Key contribution: Architecture, UI components

Tech: ReactJS, Telegram API, NodeJS, Firebase

SwitchUp
WiFi add-on module using ESP8266 using thinger.io library. Currently deployed at Open Source Lab.

Key Contribution: Sensor/Actuator logic, database

Tech: ESP8266, ReactJS, NodeJS, MongoDB

RESEARCH PROJECTS

Partially occluded face recognition
Leveraging deep metric learning techniques to quantify faces and estimate similarity index between them considering partially occluded scenarios.

SKILLS

Rust - Java - Python - C++
Spring Boot - Flask - Django
React.js - Redux
MySQL - MongoDB - GraphQL
AWS Cloud ecosystem
Digital Image Processing

EDUCATION

Vidyavardhaka College of Engineering
Bachelor of Engg. - 8.1 / 10

NPS International School
CBSE Class 12 Exam - 88.2%

Acharya Vidya Kula
ICSE Class 10 Exam - 92.83%

ACHIEVEMENTS

Smart India Hackathon 2019
Grand Finalists - Department of Atomic Energy.

MozFest 2018, London
Presented a talk titled "I blindly accept T&Cs".

Silicon RD Hackathon, 2018
Finalists - Smart switches.

MLH Local Hack Day, 2018
Winner - Web track.

CERTIFICATIONS

6.00.1x - MITx on edx
Introduction to programming with Python.