Russel Shawn Dsouza

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Education

National Institute of Technology, Karnataka, India — 2017-2021
B.Tech in Electronics and Communications Engineering — GPA: 8.77

Little Rock Indian School, Karnataka, India — 2004-2017
K-12 — GPA: 10.0(2015), 95.8(2017)

Projects

Detecting Ponzi Schemes in Ethereum Smart Contracts
Using compiled EVM bytecode, solidity source code to generate attributes and classify ponzi schemes.

Fake News Detector
Using the LIAR-PLUS dataset to classify fake news into 6 classes.

Nuclei Segmentation
Segmentation of images of kidney tissue slides to detect kidney cancer.

Spell Checker
A spell checker written in pure C.

Blockchain Elections
Using solidity and Microsoft Azure Blockchain workbench for secure, reliable elections in blockchain

Computer Skills

Languages: Python, C, JavaScript, Verilog, LaTeX
Domains: Signal Processing, Image Processing
Web Development: Django, React, JavaScript
Applications: Microsoft Azure, Google BigQuery, Xilinx Vivado
Operating Systems: MacOS, Linux

Relevant Courses

Digital Signal Processing, Digital System Design, Embedded System Design

Experience

Research Intern — May 2019 - July 2019
under Dr. Shyam Lal, NITK — Karnataka, India
Worked on segmentation of H&E stained histopathology images of kidney tissues to detect kidney cancer.
Studied fundamentals of image processing, machine learning, deep learning, computer vision.

Frontend Developer — August 2018 - April 2018
IRIS, NITK — Karnataka, India
Worked on building the frontend for the official student management website used by more than 10k people in the college.

Python Developer — May 2018 - July 2018
Pinnacle Media — Karnataka, India
Studied face detection and recognition using Scikit-learn on Raspberry Pi

Interests

Computer Vision, VR, AR, Embedded Systems