D.ROMENO WENOGK FERNANDO

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EDUCATION

2017 - 2021 • New York University Abu Dhabi (NYUAD)
B.S in Computer Science.

RELEVANT CLASSES

Intro to Computer Science, Data Structures, Algorithms, Discrete Math, Software Engineering, Machine Learning

SKILLS

Javascript, Python, Node.js, React, PHP, MySQL

LANGUAGES

Sinhala, Native Fluency; English, Fluent; MS Arabic, Basic.

RELEVANT PROJECTS
https://github.com/wenogk

Choose-your-own-path Story Builder *Abu Dhabi, UAE (Jan 2020 - Present)*
- Developed a platform for anyone to build their own choose-your-own-path stories inspired by the Netflix show, "Bandersnatch"
- Invented a new line based syntax using Javascript for users to write interactive stories with no coding knowledge. Syntax compiles to javascript object which is then used to build the story path interface.

ASL-NET Mobile App *Dubai, UAE (Dec 2019 - Present)*
- Built a mobile app that interprets American Sign Language using the phone camera using machine learning.
- Trained a CNN model using a Kaggle dataset with Tensorflow with a 89% accuracy.
- Developed an API using Flask in Python to run classifications on images.
- Developed the native Android app using React Native written in Javascript and integrated it to the API.

International Genetically Engineered Machine Competition (iGem) *Boston, USA (Dec 2018 - Oct 2019)*
Head of Computer Science Team representing NYUAD
- Team built a device intended to be used in airports that can non-invasively detect 5 diseases using saliva and was nominated for best diagnostics project.
- Developed the REST API for the device using Node.js and postgreSQL. Integrated a de-identification system for personal passenger information and generated simulated data for demo using Python.
- Designed the team website using bootstrap for cross-device compatibility. Implemented sophisticated scroll animations using the scrollmagic.js library inspired by the Apple website.

NYUAD International Hackathon for Social Good - Grand Prize Winner *Abu Dhabi, UAE (May 2018)*
- Developed a web app using Node.js where families can upload a picture of their lost loved one and can get their location if found. The system uses machine learning in the backend to find the person in public refugee camp videos.
- Worked with Amazon Web Services for the facial recognition in individual frames of the videos using a convolutional neural network.

Facebook Ethical Hacker *Muscat, Oman (Sep 2013)*
- Discovered a bug on facebook at age 14 that allowed someone to send a message as anyone.
- Bug exploited facebook's now discontinued username@facebook.com email system and email spoofing using fake PHP mail headers.

WORK EXPERIENCE

New York University Abu Dhabi Residential Education *Abu Dhabi, UAE (August 2019 - Present)*
Residential Assistant Intern
- Fostering a residential atmosphere of learning, growth, and accountability among 30 residents and the larger university community.
- Built a dynamic QR code system using Node.js so I could stick QR codes on my residents doors and update where the QR codes lead to anytime programmatically based on events or forms they need to fill out.

Habitat for Humanity *Rayong, Thailand (March 2019)*
Volunteer Intern
- Assisted in designing the architecture of a house using sketchUp.
- Built a house for a local family in Thailand from the ground up doing mechanical work such as shovelling stones, making cement, putting up bricks.

Al Madina Development & Supply L.L.C *Muscat, Oman (May 2018 - July 2018)*
Software Engineering Intern
- Learned ASP.NET and the MVC pattern on the Job.
- Simplified the Employee Tracking System by reducing number of interactions by 25%
- Discovered a loophole on the company's main website that allows admin access to the backend.