Mario Jones Vimal Stephen

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EDUCATION

NIT, TRICHY
BTech
May 2021 | Trichy, IN

CHENNAI PUBLIC SCHOOL
Grad. May 2016| Chennai, India

LINKS

Github:// **mario-vimal**
LinkedIn:// **Mario Jones Vimal**

COURSEWORK

UNDERGRADUATE
Data Structures & Algorithms
Database Management System
Operating Systems
Network Security
Cloud Computing

COURSERA
deeplearning.ai
Neural Networks & Deep Learning
Improving Deep NN
Convolutional NN
Sequence Models

SKILLS

WEB DEV
Spring • React • Node • GraphQL

ANDROID DEV
Android SDK • Dagger • RxJava

DEEP LEARNING
Tensorflow • Keras

LANGUAGES
C++ • Java • Javascript
Python • Bash

EXPERIENCE

CITI | Software Engineering Intern
May 2020 – June 2020 | Chennai, IN
Translation of trade documents from native European languages to English.
- Developed a **CNN** model to extract text from the documents. Worked on **Bidirectional RNN** and **Transformer** models to translate the extracted text.
- Implemented various optimization techniques, delivering a 10% rise in test accuracy.

GMETRI INC. | Software Engineering Intern
May 2019 – June 2019 | Bangalore, IN
- Recommended and integrated a **Text to Speech (SSML)** feature using **Google Cloud Service**.
- Created an **audio recorder and encoder** which enhanced quality by 40%.
- Made an admin page and the respective APIs for monitoring various metrics which were managed earlier through shell queries.

PROJECTS

CODE CHARACTER | Backend Team Lead
Code Character is an AI simulation game where the players are controlled using highly efficient C++ code.
Repository: delta/codecharacter-server-2020
- Built a **Spring Boot** server from the ground up.
- Integrated a message queue **(RabbitMQ)** for server - simulator (compiles and executes players' code) communication.
- Wherever efficient, migrated REST API requests to **socket** events.

DELTA WINTER OF CODE | Head of Web Operations
DWoC is a winter long program with an aim to support and improve the culture of open source software.
Repository: delta/dwoc-backend, delta/dwoc-frontend.
- Built an **Express GraphQL** server and a **responsive ReactJS** website with **Relay** for managing and declaratively fetching data.

HACKATHON

SMART INDIA HACKATHON 2020 | Winner | Team Leader
Developed a portal for digitalization (Text extraction from hand-written documents using OCR) of evidence in various forms and storage of its **hash** value in a **blockchain** to identify tampering, thereby dynamically generating a certificate for the admissibility of the evidence during prosecution.

SOCIETY

DELTA FORCE | Core Member
As a member of Delta Force, the official programming club of NIT Trichy, built Android and Web Apps for various festivals as well as responsible for maintaining the official website of the institute.