AARON ASHWIN RAJOO

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SKILLS | Technical skills: React, JavaScript, CSS, HTML, NodeJS, Java, Python, C, C#, C++

Interpersonal skills: Proactive, Inquisitive, Adaptable

WORK EXPERIENCE

May 2022 - Jul 2022

MACHINE LEARNING INTERN, MAKINO ASIA GROUP

Trained a Bidirectional Gated Recurrent Unit (BGRU) Neural Network model to predict final surface conditions and operation time of material for the Wire EDM (WEDM) machines.

Pre-processed data with various techniques like data cleaning, normalization, one-hot encoding, data inversion with pandas and NumPy, and formatted data to 3D Tensor inputs for ML.

Feb 2018 - Apr 2018

ELECTRONIC SYSTEMS INTERN, DEFENSE SCIENCE ORGANISATION (DSO)

Developed a prototype of an Alert System that detects anomaly and alert a hierarchy of subscribed users through Telegram Bot API.

PROJECT EXPERIENCE

Mar 2023 - Present

E-COMMERCE WEBSITE, https://inquisitive-conkies-92afb5.netlify.app

Designed an E-Commerce bookstore to dynamically fetch from a mock database and allow users to browse, sort and cart items with React and JavaScript. A clean user experience is also attained through routing, hooks and deploying skeleton loading states between pages.

Feb 2023 - Mar 2023

PERSONAL WEBSITE, https://airrehn.github.io/

Independently took courses to learn HTML, CSS and JavaScript and worked on a personal project to build an E-Portfolio website.

Aug 2022 - Present

CERVICAL LANDMARK DETECTOR, NATIONAL UNIVERSITY OF SINGAPORE - NUH

Worked on an Al-Computer Vision project to automate a solution to enhance first-level diagnosis of airway difficulty in patients.

Pre-processed a set of 2000 images with labels, then implemented semi-supervised learning with to iteratively retrain a Convolutional Neural Network (CNN) model by pseudo-labelling more than 20,000 unlabeled images, to achieve a final predictive accuracy of 3% of relevant neck features.

Nov 2020 - Nov 2020

SCAMCHECK APPLCATION, NATIONAL UNIVERSITY OF SINGAPORE

Developed an iOS application with Xcode to tackle romance fraud by recognizing scam elements in messages to warn, prompt and assist users to take relevant actions.

Successfully detected and categorized scam elements in messages to 3 different levels of suspicion to warn, prompt, and assist users into taking the relevant actions.

EDUCATION

Aug 2020 - May 2023

National University of Singapore Undergraduate in Mechanical Engineering, Minor in Computer Science Current GPA: 4.21/5.00 Apr 2015 – May 2018

Ngee Ann Polytechnic

Diploma in Engineering Science

Cumulative GPA: 3.93/4.00

LEADERSHIP EXPERIENCES

Executive Committee – Quartermaster, NP Guitar Club

April 2015 - April 2018

- Performed, managed food catering, and handle ticket sales for biannual concerts of up to 400 people and facilitated training camps for over 200 members.
- Liaised with the school and external vendors to purchase and allocate equipment to a club of 60 students.
- Handled publicity and recruitment of 60 new members annually.

Ambassador – School of Engineering, SoE Rangers

April 2016 - April 2018

- Facilitated large and small-scale events such as open-houses and Math's Challenges organized for prospective secondary school students.
- Student leader for International Symposium on Advances in Technology Education (ISATE)
 2017 to facilitate and share to various higher education institutes innovative teaching methodologies and practices in Ngee Ann Polytechnic.

COMMUNITY SERVICE

Ng Teng Fong General Hospital

April 2016 – Dec 2016

- Monthly visits to the hospital with a group from NP Guitar to perform for the warded patients.
- Performed for a well-being and healing concert organized by JurongHealth.

AWARDS | DSO Diploma Scholarship

Oct 2017 - May 2018