Dandy Cheng

Johor, Malaysia

A self-motivated computer science undergraduate student whose interest lies in artificial intelligence.

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Skills

- MERN Stack
- Machine Learning
- Artificial Neural Networks
- Convolutional Neural Networks
- PyTorch
- Python3
- PHP
- Java
- C++
- SQL/NoSQL
- Git
- MAVLink

Experience

Qinetics Solutions Sdn Bhd / Full Stack Web Developer Intern
MAY 2019 - AUG 2019, Kuala Lumpur

- Developed a Chatbot from scratch with MongoDB, ExpressJS, NodeJS and Firebase.
- Deployed Chatbot on a local server with SSH via PuTTY.

Alphaswift Industries Sdn Bhd / Engineering Intern
JAN 2019 - APR 2022, Johor

- Assisted in maintaining prototype drones.
- Acted as pilot and Ground Station Control (GCS) for UAS testing.
- Created an alert system to detect drone in-flight abnormalities.
- Tasked with automating precision landing with integration of computer vision and sensor data.

Education

INTI International University / Diploma in Information Technology
JAN 2018 - DEC 2019, Negeri Sembilan

- CGPA - 3.83
- Dean's List 2018 and 2019

INTI International University / B.Comp.Sc. in Computer Science - Software Engineering
JAN 2020 - Present, Negeri Sembilan

- CGPA - 3.55

Projects

Final Year Project / Virtual On-Premise Shopping System with Face Recognition Authentication
MAY 2021

A system that aims to simplify shopping experience, and make shopping safer in terms of security and hygiene, which plays an important role during this pandemic. The project involves a mobile application for users to enable on-premise purchasing by scanning QR codes on an E-catalogue, as well as making payments with the mobile application through 2FA (With face recognition and PIN). The system also consists of an admin panel for staff for products management, stock management, as well as a brief analysis provided by a dashboard.
A modified FaceNet Siamese Network is used as an embedder, where random triplet selection and batch hard triplet mining are performed. The classifier has achieved a training accuracy of 92.16% and a test accuracy of 93.12%.

Deep Learning / Optical Character Recognition with PyTorch
MAR 2021

- PyTorch implementation of MNIST optical character recognition.
- Achieved 93.29% training accuracy and 93.29% test accuracy.

Deep Learning / Gradient Descent Optimization Algorithms
JAN 2021

- Built a simple neural network to demonstrate gradient descent optimization algorithms such as Momentum, RMSprop and Adam.

Deep Learning / Optical Character Recognition with Artificial Neural Networks
OCT 2020

- Built a functional 3-layer neural network from scratch with NumPy capable of recognizing digits from the MNIST dataset.
- Achieved 92.84% training accuracy and 92.72% test accuracy.

JavaScript / Impossible Tic-Tac-Toe
OCT 2018

- Impossible tic-tac-toe with vanilla JavaScript.

Extracurricular Activities

MAR 2019
- Participated in competitive programming competition at University Sains Islam Malaysia (USIM) in March 2020.
- Participated in Dell Virtual Hack2Hire Hackathon in April 2021.
- Participated and obtained first place for Dell Virtual Hack2Hire Hackathon in March 2022.

References

Jerry Ho
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