

Wesley Tsang

It is my ambition to be at the forefront of a new generation of innovators, a pioneer who will push the limit of digital possibilities to a whole new level.

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Work Experience

Accenture - Application Development Analysis

May 2021 - present

- Fast-paced and concurrently worked on 3 projects/clients: AIA, Manulife, Airport Authority, Accenture in-house
- Enhanced existing system with multi-threaded high-performance APIs with modern non-blocking techs from Spring Boot
- R&D core Accenture templates summaries most valued and common features for the use of the whole company
- Gained experience on CQRS, Event Sourcing, DDD design patterns, and TS frameworks such as NextJs

Orient Overseas Container Line - Assistant Technical Analyst (Graduate trainee)

Aug 2019 - Jan 2021

- Developed and designed new cloud-native web application to facilitate system migration included functionalities such as Container Repair approval, Booking and Tracking
- Followed best practices of Agile development, Architecture design (achieved "The Twelve-Factor" defined by Heroku), TDD and CI/CD
- Improved performance of data load from minutes to seconds by improving SQL queries and design new mechanisms
- Developed skills included Spring Boot, Hibernate, Solace, VueJS, MongoDB, Nodejs, ExpressJS, Jenkins
- Made use of different tools such as Kanban, SonarQube, PACT, Grafana etc. to ensure high quality of code and achieved 100% test case coverage and zero vulnerabilities from SAST Testing

AdmanGo - Full-stack Web Developer (Intern)

Jun - Jul 2018

- Built functions to detect, analyse and visualise advertisement data from different social media
- Reviewed existing codes in Python, C# and JS, and made enhancements to improve memory usage, code structure, readability and gained experience on using Google Cloud Bigtable

China Galaxy International Securities (HK) Co. Ltd. - Software Engineer (Intern)

Jun - Aug 2017

- Developed in-house software for risk management departments to support their daily operations such as automated data load, alert system
- Collaborated and communicated with both tech and non-technical colleague to understand their needs and expertise

Education & Certification

King's College London - MSci Computer Science (1st Class Honors)

Sep 2015 - 2019

- Study focused on AI, Computer Vision and Deep Learning

St John's College Portsmouth - A-Levels

Sep 2009 - Jun 2015

- Mathematics (A*), Further Mathematics (A), Chinese (A)

AWS - Associate Solutions Architect (in-progress)

Udacity - Computer Vision, Deep Learning Foundation, Full-Stack Web Development Nanodegree

Projects

Resource Allocation Applications using Computational Intelligence Methods

Oct 2018 - Apr 2019

- Researched, applied and evaluated two state of the art and one newly published optimisation algorithms to optimise the "Project Markers Allocation" problem with hard and soft constraints for KCL Informatics department
- Evaluated algorithms include Genetic algorithm (GA), Simulated Annealing (SA) and Battle Antennae Search (BAS)
- Formulate problem situation, research and reproduce algorithm from latest research paper
- Resulted GA has the most consistent performance (fitness value >84), and discovered a great potential of BAS

Computer-Aided Imaging Diagnosis

Nov 2017 - May 2018

- Worked with researchers from the medical field who hypothesized that acid reflux can be observed in endoscopy under a certain condition
- Built Convolutional Neural Network (CNN) with different techniques to classify diseases from endoscopy videos
- This included collecting data, pre-processing video data, training, testing and evaluate the CNN
- Successfully classified diseases with up to 90% accuracy, visualised filters for each layer but no strong evidence to prove any visible patterns but still gave the researchers a strong support on their hypothesis

Professional Skills

- Programming Languages / Full-stack: Java, Python, C++, Scala, Prolog, SpringBoot, Solace, Kafka, SpringCloud, JMS, JPA, JDBC, Async, Multi-thread, HTML, CSS, JavaScript, NodeJS, ExpressJS, VueJS, ReactJS, UnitTesting, IntegrationTesting, ContractTest, SonarQube, Elasticsearch, Jenkins, CICD etc.
- Databases: MySQL, MS SQL, Oracle SQL, MongoDB, MongoAtlas, PL/SQL PostgreSQL, Redis, SQLite, H2
- Cloud: AWS, Google Cloud Platform (GCP), Azure, Pivotal Cloud Foundry (PCF)
- AI: Deep Learning (CNN, RNN, GAN), Computer Vision, Optimization, ML, TensorFlow, Keras, PyTorch, MATLAB
- Languages: English (Fluent), Cantonese (Fluent), Mandarin (Fluent), Japanese (Basic)