

Zack Tan

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WORK EXPERIENCE

Schlumberger Technology

April 2021 – October 2021

Software Engineering Intern

Gatwick, London

- Extended the functionality of an in-house desktop application to directly process seismic data acquired in Ocean Bottom Node surveys, accelerating the workflow of geophysicists of Schlumberger
- Automated the process of generating 4D visualization objects of Petrel in Python
- Configured a CI/CD pipeline on AzureDevOps which accelerated development and deployment
- Perform unit and regression testing to ensure proper functioning of features
- Technologies used: pandas, scikit-learn, scipy, Tkinter, Plot.ly, matplotlib, MATLAB

Imperial College London

Sep 2020 – June 2021

Undergraduate Teaching Assistant

South Kensington, London

- Reinforced students' understanding in Mathematics and C++ Programming
- Supported the growth and development of newcomers of Imperial College

PROJECTS

ISSIE, Interactive Digital Design Toolbox

Jan 2021 – April 2021

Software Developer

Gatwick, London

- Contributed to the codebase of ISSIE, a cross-platform hardware design application built for undergraduates
- Refactored the existing JavaScript draw library with a home-brew type safe library written in F#
- Designed the interactive draw library according to a Model-View Controller software design pattern

Weather App, Hack at Home Challenge

Aug 2020 – Oct 2020

- Made an aesthetic Weather App GUI in Python using the PyQt5 framework
- Web-scraped weather information from the OpenWeatherMapApi and presented hourly forecasts
- Integrated Twilio's SMS and WhatsApp message sending services to receive daily weather updates

XpirEE, Combating Domestic Food Waste

Jan 2020 – Jun 2020

Software Lead

South Kensington, London

- Worked in a group of 7 to design an application XpirEE, that manages the expiry dates of your groceries while suggesting recipe ideas with the leftovers
- Utilized Google's Firebase Real-Time Database API to sync and query data from the cloud to end-users

EDUCATION

Imperial College London

Graduating in June 2022

MEng in Electrical and Electronics Engineering

South Kensington, London

- Primary dance choreographer for the Malaysian Cultural Night performance with an audience size of 1000
- Relevant Modules: Linear Algebra, Machine Learning, Data Structures and Algorithms, Electrical Energy Systems

SKILLS & INTERESTS

- **Programming Languages:** Python, C++, F#, MATLAB
- **Additional Completed Courses:** 6.006 Introduction to Algorithms (MIT), Deep Learning 6.S191 (MIT)
- **Interests:** Basketball, Calisthenics, Poker