ITC STEM Internship Scheme 2021-22

Company: AI Mnemonic Limited

Position 1: Electronic Engineer

Position 2: AI Programmer

Position 3: App/Web Programmer

Brief Company Information

We are currently a HKSTP incubatee company founded by researchers and engineers with more than 20 years R&D experience. Our founder Prof. Ling is a well-known expert in signal processing and physiological data analysis. He has more than 40 patents applied and 300 international papers. Our core member, Dr. Ringo Lam, has many years academic and industrial working experience. He also has more than 30 international papers published and co-invented 10 patents.

We are developing an Activity Attention Monitoring wearable device that can recognize both the ongoing activity and the user’s attention level. It overcomes the deficiency of using EEG signal to measure user’s attention level but without knowing if the user is really playing games, watching TV, but not doing homework and studying as what their teachers and parents want.

Position 1: Electronic Engineer

Job Description
1. To support Sensor related product development
2. To assist Schematic Drawing, PCB layout and prototyping
3. To assist Product Testing and Test cases development

Requirements
1. With knowledge of analog circuit design
2. With knowledge of MCU firmware application programming, preferably in Arduino and ESP-32
3. Understand signal processing theory and filtering methods for biomedical signals like EEG, EMG and PPG

Number of vacancies: 1

Position 2: AI Programmer

Job Description
1. Develop algorithms for WiFi data analysis
2. Develop algorithms to analyze object movement based on thermal imaging
3. Train the AI models and build the platform
Requirements
1. Preferably with experience in computer vision and/or WiFi data;
2. Experience in Python, C++, Tensorflow, Pytorch, Matlab;
3. Knowledge in deep neural networks;
4. Using open sources and cloud services;
5. Using open sources and neural network;
6. Preferably students of year 3 or above

Number of vacancies: 1

Position 3: App/Web Programmer

Job Description
1. Responsible for mobile phone (Android / iOS) and AWS/Alibaba Cloud programming
2. Develop codes to transfer summarized data to server for user sharing and review
3. Full-stack web development with database and/or payment gateway

Requirements
1. Preferably with experience in Android Studio, Java / Kotlin, Swift or xcode, etc
2. With experience of Python, PHP, node.js, HTML5, React, Javascript, etc
3. Knowledge of payment gateway and e-commerce server set up

Number of vacancies: 1

Internship Period: Winter break 2021/22

Address of workplace: HKAI Lab (Hong Kong Science Park) or Cyberport (Hong Kong Island)

Application Procedures
Interested students should submit your application directly to the employer with your CV at your earliest convenience.

Application: Dr. Ringo Lam - ringo@aimnemonic.com