Chiao Lun Hsu

Chemical Engineer with programming skills, having software development experience in designing a web service application for solving engineering problems, looking for a position to utilize my integrated background to your organization

Contact

📍 Delft, The Netherlands

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Skills

Python   flask RESTful API, data analysis

JavaScript   web development, data visulization

C++   object oriented programming

Matlab   numerical mathematics

MongoDB   CRUD operation, pymongo

Docker   multiple containers system

Cloud   AWS, DigitalOcean

Languages & Interets

English   (fluent)

Mandarin Chinese   (native)

German   (intermediate)

Volleyball/Running   Guitar

Stock   Surfing/Diving

Education

Technishe Universiteit Delft
2018 - 2020

MSc in Chemical Engineering   Delft, The Netherlands

Universität Ulm
2016 - 2017

Energy Science & Technology (exchange program)   Ulm, Germany

National Taiwan University
2012 - 2016

BSc in Chemical Engineering   Taipei, Taiwan

Profesional Experiences

Digital Twin Project
2020.05 - 2020.08

Intern, Tata Steel in Europe

- Designed software for integrating multiple process simulation models

- Built the RESTful API with Python, stored data with MongoDB, tested the app with Postman and Swagger UI

- Implemented C++ written process models in Python for boosting the computational speed

Matlab Teaching Assistant
2019.09 - 2019.11

TU Delft, Applied Numerical Mathematic course

- Taught numerical mathematic algorithm in Matlab and guided students to solve engineering problems

Master Thesis
2019.09 - 2019.11

Rational Design of Organosulfur Polymers as Cathode Materials in Lithium Batteries

- Synthesized organic polymer chemicals in various structure in the use of making batteries with high specific capacity and longer cycle life