

# Samuel Wang

samuel.wang21@imperial.ac.uk | +44-7398-640424 | www.samuelpswang.com

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## EDUCATION

### **Imperial College London**

*BEng Electronics & Information Engineering*

London, UK

October 2021 - Present

- Webmaster for engineering students' union; elected to manage information portal for 4k+ students (formally known as City & Guilds Union).
- Relevant coursework: Mathematics 1A (in progress), Global Challenges: Collecting & Understanding Data (in progress).

### **New York University**

*BSc Electrical & Computer Engineering (GPA: 3.79/4.00)*

New York, USA

September 2020 - August 2021

- Dean's List for 2020 Academic Year (top 10% of major).
- Global Leaders and Scholars in STEM Program (invitational honors program to strengthen understanding of engineering industry; 50 selected per year out of 6k+ students per year).
- Relevant coursework: Linear Algebra and Differential Equations (A), Discrete Mathematics (A), Advanced Writing for Engineers: Research (A-), Data Structures and Algorithms (A-), Object Oriented Programming (B).

## EXPERIENCES

### **Imperial College Rocketry Team**

*Software Engineer*

London, UK

October, 2021 – Present

- Developed front-end dashboard for displaying and dynamic plotting of flight telemetry data.
- Written OpenAPI documentation and additional testing capabilities for Flask-SocketIO flight data server.

### **Arctics Academy (Online Tutor Matching Platform; NTU Startup)**

*Full-Stack Developer*

Taipei, Taiwan

August, 2020 – Present

- Developed back-end REST API on MERN architecture for registration, appointment scheduling, and tutor queries.
- Built text and email OTP verification services using AWS Simple Notification Service.
- Co-developed landing page and web application user interface with React & vanilla CSS.

### **National Cheng-Kung University Department of Psychology**

*Research Assistant*

Tainan, Taiwan

December, 2020 – June, 2021

- Built CLI app for Tobii-branded eye-trackers using Google Python Fire & Tobii Research SDK.
- Researched LSTM-based ML algorithm for identifying autistic children using time-serial gaze data on facial expressions.

## PERSONAL PROJECTS

### **Vita-mix (Nespresso Imitation; NYU "Intro to Engineering" Coursework)**

*Electronics Engineer*

New York, USA

September, 2020 – January, 2021

- Written heavy-lifting driver code in C++ for Arduino board to control stepper motor and water pumps.
- Built iOS app prototype for controlling machine using Adobe XD and SwiftUI.
- Designed motor powering circuit using NPN transistors & trivial machine parts with AutoCAD.

### **Lowered App (Odd-lot Stocks Trading App; NTU Global Initiative Symposium Project)**

*Front-End Developer (Mobile)*

Taipei, Taiwan

August, 2019 – September, 2019

- Prototyped 5+ app interface in Sketch and SwiftUI, including dashboard, stocks info, and user account management.

## EXTRACURRICULARS

### **Beyond Taiwan (Registered Non-profit Organization)**

*Treasurer & Curriculum Writer*

Taipei, Taiwan

January, 2021 – Present

- Raising money through corporate sponsorship & Dodoker Taiwanese public NPO funding platform.
- Produced annual cashflow statement and balance sheets to secure Taiwanese official NPO status.

### **Code.org (Nonprofit Organization)**

*Volunteer Translator*

Tainan, Taiwan

September, 2016 – June, 2017

- Translated English computer science video subtitles into Mandarin Chinese.

## SKILLS

- Languages: JavaScript (Node, Express, React), SQL (MySQL), NoSQL (MongoDB), Python (Flask), C/C++, Swift.
- Softwares: MS Office (expert), Adobe Creative Suite (expert), Sketch (expert).