

# TSANG CHEUK NAM

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## EDUCATION

**BEng in Computer Science**, The Hong Kong University of Science and Technology 2018 - 2022

Major-CGA: 3.641

Expected Graduation: July 2022

## SKILLS

**Languages** C++, CUDA, Scala OpenMP, MPI, Python, TypeScript, JavaScript, Bash

**Frameworks** Flutter, React, React Native, Node.js, Platform-IO

**Tools** Git, Linux, Docker, Regular Expression, LaTeX, TensorFlow

**Hands-on Skills** SMT Soldering, Laser Cutter Maintenance, 3D Printing, Brewing, Carpentry

## PROJECTS

**ESP Access Point Webserver** C++, Platform-IO, Javascript, React

[GitHub](#)

- Created a template for future ESP32-based projects.
- Implemented an access point with captive portal to web application.
- Configured the toolchain to build and upload React web applications.
- Implemented an example React application that controls GPIO via WebSocket.

**Flutter remote controller for Samsung Smart TVs** Dart, Flutter

[GitHub](#)

- Configured Internet permission and Adaptive Icon for Android build.
- Implemented automatic access token caching.
- Implemented wake-on-lan for the Smart TVs.
- Implemented touch-pad and keyboard mapping.
- Implemented hardware volume button capturing.

## EXTRA-CURRICULAR ACTIVITIES

- HKUST Hackathon 2021 semi-finalist
- HKUST CSE Big Idea Challenge 2022 1<sup>st</sup> Runner-up.

## WORK HISTORY

**Software Engineer** TURNED-E! Education Limited Dec 2021 - Feb 2022 (3 months)

Develop software and hardware for embedded systems used in STEM Education for K-12 students

**Software Engineer** DearFans Dec 2020 - Jan 2021 (2 months)

Full stack developer to develop the company's website and mobile app from the ground up using React.js and Flutter.

**Web Developer** The Hong Kong University of Science and Technology Jun 2020 - Sep 2020 (4 months)

Organizing, renovating and building of the University's engineering education center's websites for internal use.

**Laboratory Technician** The Hong Kong University of Science and Technology Aug 2019 - Sep 2019 (2 months)

Managing and maintaining the undergraduate student experiential learning lab in the university.