

CALEB FOO

software developer
problem solver
artist

Personal Info

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97106929

Email

kaleb.is.caleb@gmail.com

LinkedIn

linkedin.com/in/caleb-foo/

Artstation

kaleful.artstation.com

GitHub

github.com/kaypohleb

Soft Skills

Critical Analysis

Teamwork

Research & Strategy

Problem-Solving

Public Speaking

Hard Skills

Java & JavaScript

C++

C#

Python

HTML

CSS

Git

Adobe Creative Suite

3D Modelling

Graphic Design

UI/UX

EDUCATION

Information Systems Technology and Design

Singapore University of Technology and Design

• Freshmore (2018 - Present)

Diploma in Electrical and Electronic Engineering

Singapore Polytechnic (2012 - 2015)

• Honors: Director's Honor Roll 2012/2013

• Cumulative G.P.A 3.929

WORK EXPERIENCES

Mural Lingo

Technology Artist Intern (May to September 2019)

- Explored closely with the Founder to look into pursuit of the potential sustainable methods of integrating technology into murals.
- Worked on execution of several murals and integration of a Projection Mapping mural through visual transformations and animation.
- Modelled and Created 3D visual forms to use as relief of the mural.

A*STAR Institute of Infocomm Research (I2R)

Social Robotics Team Intern (March to May 2014)

- Created key mechanisms through rapid prototyping and testing for robust user testing of a Social Soft Robotic Pet Companion project
- Programmed troubleshooting interfaces to allow easy maintenance and faster diagnosis
- Aided in the selection and placing of new piezo-electric sensors to encourage more interaction and realistic movement for touching from user testing

PROJECTS

Project HuGGler (Interactive Pet Soft-Toy Robot)

Industrial Project with A*STAR (June 2014 to March 2015)

- Main editor and designer of user interfaces
- Combined both hard and soft engineering for a robust robot that provides the same control specifications as a regular soft toy
- Designed the robot's inner shell using SOLIDWORKS for the housing of electrical components while still being masked by soft padding of cotton
- Directed all designs for the possible branding and marketing application of the robot through consultation for future expansions into an entrepreneurial direction

Enigma Emulator Application

Personal Project (June 2019 to Present)

- Implemented design architecture of an enigma machine into an ANDROID app
- Transitioning to integration of easy encryption of messages/images for one-to-one or one-to-many applications.

CO-CURRICULAR EXPERIENCES

Developer Student Club Lead

Digital Design Development Club (3DC) powered by Google Developers (Nov 18 to Present)

- Planned and Executed multiple serieses of workshops for the student community. (Python Development, Data Visualisation & Machine Learning, Deep Learning)
- Proved competence in teaching, leadership, and mentoring.
- Liaise closely with Faculty and Seniors for opportunities to deepen skills of students
- Network with Professionals from Google and another DSC Leads during meetups

Freshmen Representative

Singapore University of Technology and Design (February 2019 to Present)

- Represent the collective interest of freshmen in SUTD.
- Attend pedagogy meetings with University Leaders
- Work with Student Clusters to identify and work on solving issues affecting Freshmen.