

Bangyan (Justin) Chu

bangyanc@andrew.cmu.edu | justinchuby.com | 412.923.6982

EDUCATION

Carnegie Mellon University Pittsburgh, PA

May 2019 (Expected)

Bachelor of Science in Electrical and Computer Engineering

GPA: 3.69 / 4.0 Dean's List - Fall 2015

PROJECTS

CMU Course Find - 15112 Term Project

Nov 2016 - PRESENT

www.cmucoursefind.xyz

- > Developed an online course finder for CMU using Python and Django.
- > Used 500+ times per week by CMU students.
- > Includes information about all of the 4653 courses at CMU. Features real-time information that helps students discover courses.
- > Created a text analyzer that interprets user input and generates Elasticsearch query for pertinent schedule/instructor/course information.

Robot Snake Shape Fitter

CMU BIOROBOTICS LAB | MAR 2016 – APR 2016

- > Created an algorithm in Matlab that allows developers to fit the robot snake to points in space, without having to specify an angle for each joint. The algorithm is more than 10 times faster than the previous one, while providing comparable accuracy.

Course-api

SCOTTYLABS | JAN 2016 – AUG 2016

- > Sped up cmu-course-api using multithreading; updated its web scraper to provide extra instructor information.
- > Built an API server using Elasticsearch, making course information available for searching and retrieving programmatically.

SKILLS

Programming Languages: Python, C, SystemVerilog, Matlab, HTML/CSS/JavaScript

Languages: English, Mandarin Chinese, Cantonese, French (learning)

EXPERIENCE / ACTIVITIES

Scottylabs

JAN 2016 – PRESENT

Core member

- > Helped organize TartanHacks 2016, a hackathon of more than 350 students at CMU.
- > Develop and maintain apis (application programming interface) to provide student developers access to information on campus.

98-300 Cantonese StuCo

FALL 2016 – PRESENT

Instructor

- > Co-plan and run the first student taught Cantonese course at CMU.
- > Introduce basic Cantonese to a class of 35+ CMU students.
- > Developed an online phonetic whiteboard using React.js to aid teaching.

First-aid Pioneer

THE AFFILIATED HIGH SCHOOL OF SCNU | JAN 2015 – JUN 2015

Team Leader

- > Led a team of seven to promote first aid education in high schools.
- > Initiated and taught a first aid lesson in the school.
- > Negotiated with the school and the health service to start a student EMS team.

RELEVANT
COURSEWORK

- Matrices and Linear Transformations
- Discrete Mathematics (Current)
- Introduction to Computer Systems (Current)
- Probability Theory and Random Processes
- Structure and Design of Digital Systems
- Electronic Devices and Analog Circuits (Current)