Edwin Chan

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EDUCATION

University of Southern California, Viterbi School of Engineering   Class of 2020
B.S. Computer Engineering and Computer Science   Total GPA: 3.84/4.00

Relevant Coursework: Software Development(Java), Mobile Application Development(Swift), Parallel and Distributed Computing, Networking, Algorithms and Computing Theory, Data Structures, Object-Oriented Programming, Professional C++

WORK EXPERIENCE

FishBot – Co-Founder, Los Angeles   January 2019 - Present
- An automated fish-farming platform which monitors the water condition through IoT sensors and saves resources through fish-modeling and data analytics.
- Conducted field-testing successfully and raised 5000 USD for initial platform development.
- Designed the system architecture of the product and created the React Native Application, along with the website.
- Used AWS Lambda, AWS API Gateway, AWS Dynamo DB, AWS IoT Core, React Native, HTML, CSS and JavaScript.
- Website: https://www.fishbot.dev

Shun Hing Technology Co. Ltd - Software Engineering Intern, Hong Kong   Summer 2018
- Worked on the Hong Kong MTR Commercial Broadcasting System, which plays advertisements through panels located in different stations and is controlled by the central control room.
- Passed technical testing by Hong Kong MTR successfully and earned the contract deal worth approx. 13M USD.
- Enabled real-time information retrieval from RSS feed using JavaScript to display latest news and stock prices, hence improve system usability.

Chinese University of Hong Kong - Digital and Signal Processing Lab Intern, Hong Kong   Summer 2014
- Wrote a voice recognition program intended to help deaf and mute workers in the cafeteria by converting orders from speech to words shown on the screen to streamline the ordering process.
- Convinced the Electrical Engineering Department with working prototype to consider installing the system in canteens.
- Created a simple GUI with WxPython and implemented multi-threading with Subprocess.
- Used Julius as the voice recognition engine with trained tri-phone model.

RECENT PROJECTS

The Clock – Developer   April 2018 - Present
- A Google Chrome Extension with simplistic UI which shows the current time in different time zones
- Obtained a total of 1288 users from 81 different countries, with currently 71 active users per week.
- Developed the entire application with HTML, CSS and JavaScript.
- Website: http://bit.ly/TheClockEdwinChan

ViHack – Full-Stack Developer   December 2017
- A React Native application using machine learning to suggest which insurance plan should consumers buy based on their demographics, and visualize the data with Kibana by using Elasticsearch, on a data set of 1.428 million users.
- Won YHack 2017 Best Use of Amazon Web Services.
- Wrote the Frontend UI with React Native and connected it to the AWS backend.

SKILLS

Programming Languages: HTML & CSS, Java, JavaScript, React Native, MySQL, Python, Swift, C, C++
Frameworks and Technologies: AWS EC2, AWS Lambda, AWS API Gateway, AWS Dynamo DB, AWS IoT Core, Azure Emotion API, Alexa Skill Kit, Firebase, Google Analytics, Node.js, OAuth, TCP/IP, UDP, MPI, OpenMP, Pthreads

EXTRA-CURRICULAR ACTIVITIES

Mentorship: AthenaHacks (2017-2018), AppLab USC
Organizations: Makers at USC (an Electrical Engineering Club)
Languages: Chinese(Mandarin), Cantonese, English, Japanese