

EDUCATION

2015.8-2018.6 **Nanyang Technological University**

- Bachelor of Engineer (Electrical and Electronic Engineer) Specialization in Info-communication

2013.4-2015.6 **Nanyang Polytechnic**

- Major in Electronic Computer & Communication Engineering Specialization in Embedded-System

WORK EXPERIENCE

2019.2-Now **Software Engineer in Bigo**

- Develop online recommendation infrastructure and performance optimization tricks use C++.
- Design and implement the base nearline infrastructure user event tracking aggregation system use Flink for multiple product lines.
- Design and Build an internal streaming process framework extension focus on Id, Session Features and Forward Index based on Flink wrote in scala use shapeless for generics and scala macro for performance.
- Establish monitor system for recommendation system use prometheus promgen filebeat elasticsearch kibana grafana

2018.9-2019.1 **Full stack Engineer in Bitmain**

- Develop miniapp management system for Chatchat backend and frontend
- Develop Memo (twitter on blockchain) backend use graphql and neo4j
- Develop a bchsv separation miniapp to split bchabc and bchsv
- Develop Devops stack use nixops and hydra for my projects

2018.2-2018.9 **Software Engineer in LeadIQ**

- Build reward system frontend and backend for users who contribute the data.
- Use blockchain as the database with versioning and audit history.
- Build a hyperledger based service to share data with partners.
- Data parsing, web scraping and Cluster Data processing use spark.
- Enrich the voter information for bidding to split California into 3 states.

2016.1-2018.6 **Full Stack Web Developer(Freelancer) in Fruittec(Uniwebpay)**

- Food Information Platform(Cooperate with Alipay,Search Uniweb In app store)
 - Ionic3 application for cross platform
 - Multiple Oauth2 Login and share ability
 - Real time online food share ordering and payment
 - Payment system use alipay and settle account through OCBC
 - Lucky Draw module Infrastructure as a sub module for multiple project
- O2O(offline to offline) restaurant management system (Popular used in China Town)

- B2C(business to customer) restaurant share pay system (Based on Wechat,Facebook oath2)
- Human Resource management system (Payment Tax Attendance etc.) to meet the MOM requirements

2017.1-2017.5 **Full Stack Web Developer(Internship) in Eloes Web Pte Ltd** Homepage: <https://github.com/drakechng/E-promotion>

- Project: Loyalty and Promotion Application
 - Build a web management system for merchant
 - Full duplex communication web platform by using Meteorjs
 - Android and IOS client app use React Native

SCHOOL PROJECTS

2017.8-2018.6 **Final year project**

Homepage: <https://github.com/xiongchenyu6/Final-Year-Project>

Official WebSite: <http://www.xiaopodao.com/>

- Develop a web-based management system for international delivery sharing and market analysis enhanced with machine learning
 - Build a web management system to fit flight group to deliver, track, and notify the receiver.
 - Use data collected above to analyzing the marketing with the modern data mining and ai technology.
 - 1000+ Register Users in NTU
 - 30000+ Packages send to Singapore

2016.1-2016.5 **Design & Innovation Project (DIP)**

Homepage: https://github.com/xiongchenyu6/Dip_Project_for_OBD

- Head Up Display Projection for Car
 - Use raspberry pi to collect the data from OBD by python.
 - Use Nodejs to build a light weight server.And process the OBD info with google direction.
 - Create the website to display the data.
 - Win the best Demo

2014.6-2014.8 **POLY Final year project**

Homepage: <https://github.com/xiongchenyu6/NYP-FPY>

- Smart House Sharing
 - Use Arduino to control the house model and collect sensors data
 - Design and build a Android app for user to login and authorization
 - Use NFC to unlock the house door

PROGRAMMING SKILLS

Declarative	Html5(pug) Css(less,sass)
Procedure	C C++ Python(Django) Nodejs(Express Meteor)
Functional	Haskell Scala(Scalaz, Shapeless) Elisp
Object-oriented	Java(Play, Android) C#(Asp.net)
Js Sub-Languages	Js(Es6) Typescript Coffeescript ScalaJs
Concurrent Programming	Scala(Akka) Haskell(stm) clojure(Channel)
Front-end framework	Reflex Halogen Angular React Ramda
Front-end Style	Bootstrap 3&4 Materil UI Antd
Front-end Module	Webpack Parcel Jest
Full-stack framework	Ionic3 React Native Electron
System	Nixos Linux(zshell tmux vim emacs) Docker Mac
IOT	Raspberry Pi Arduino DSP
Database	Mysql Mongodb Firebase Hyperledger Fabric
Documentation	Latex Markdown Gitbook Org Mode
Devops	Aws Nix Nixos Nixops hydra k8s docker
Testing	CI/CD + Spec + Property Test
Big Data	Flink Spark Hadoop Yarn Kafka AirFlow
Rpc	brpc grpc
Monitor	promethues filebeat logstash kibana open falcon