

# Chenbo (Simon) Yi

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I'm an enthusiastic and energetic Software Engineer at Makers and a former Project Manager with Ph.D degree in Environmental Engineering. I have managed multiple projects in engineering sector and education sector. Further than a non-technical project manager, I would like to use my strengths on research and analytical thinking to have the better contributions on projects. During the self-learning, I discovered the enjoyment of programming and magnified the enjoyment at Makers. I am now looking for an opportunity to join a fast paced software team delivering exciting projects/products where I can learn extensively with and contribute to.

## Projects

Examples:

Project title	Description	Project Timeframe	Technologies	Testing
<a href="#">Dinnergy</a>	Dinnergy is an iPhone application that allows users to plan a meal depending on available ingredients. In two weeks, we learnt Swift and Xcode to support the development and used XCTest to conduct unit tests and feature tests. In this project, I have lead the Backend development including on Database, Business Logic and Tests.	10 days (Team of Six)	Swift , SQLite, Xcode	Travis, SwiftLint, XCTest
<a href="#">Ace-Book</a> : Deployed at: <a href="https://acebook-heroku.herokuapp.com/">https://acebook-heroku.herokuapp.com/</a>	A clone of Facebook. We together learnt and used Ruby on Rails and CICD . We have effective communication with the 'Clients' and delivered the best product among the 5 groups. I lead the tasks on database, controller, deployment and contributed on the other parts. I shared my experience on project management by leading the first meetings.	9 days (Team of Six)	Ruby , Rails, PostgreSQL	Travis, RSpec, Capybara
<a href="#">MakersBnB</a>	A clone of AirBnB. We together learnt new tech stack including framework, test library, ORM. We also experienced multiple working styles ( team, sub-teams, individual). I have shared my experiences on project management and decision making and learnt the work flow on git/Github. We grew massively and collaboratively.	4 days- (Team of Four)	Javascript, node.js, express.js, PostgreSQL, Sequelize	Jasmine, Nightwatch.js
<a href="#">Bowling-Scorecard</a>	A single page web app of bowling scorecard. User can enter the number of pins knocked down of each roll. The score is calculated after each round and updated when spares or spikes	2 days- (Solo)	Javascript, jQuery	Jasmine
<a href="#">Chitter</a>	A web app of message board. User can sign up, login and post message. Message owner and posting time are listed with message on the board.	2 days - (Solo)	Ruby, Sinatra, PostgreSQL	RSpec, Capybara
<a href="#">Rock Paper Scissors</a>	A web application for playing Rock_Paper_Scissors between two players or with the computer. When playing with computer, the computer selects a random movement.	2 days - (Solo)	Ruby, Sinatra	RSpec, Capybara

## Skills

### Communication

At Makers I pair programmed daily and lead the stand up meeting in my group projects. I am flexible and able to modify my process to align with the team (Link:[Feedbacks from Paring Partners and Project Teams](#)). As a former project manager, I worked closed to the technical teams and had opportunity to enrich my experiences on liaison with clients and sub-contractors in SMT. At CUDL, I improved my skills on communication with internal teams and stakeholders. The conference manager at Sidney Sussex college used 'efficient' to describe my communication with her.

### Fast Learning

I can pickup new concepts and skills quickly through self-learning. I have learnt C# and ruby in about 6 weeks before joining Makers. At Makers, I was able to learn javascript and jasmine in one week and converted my learning to minimum viable product by TDD. Similarly, I made an AirBnB clone using node.js, express.js, Sequelize and Nightwatch.js with no prior experience in a week. Beside programming, I demonstrated my learning skills by quickly picking up concept on mechanical engineering in automotive industry and in turn lead on technical translation. During the PhD research, I was able to gain solid understanding on physical fundamentals of microwave heating quickly with no previous knowledge and built my multidisciplinary research.

### Analytical Thinking

When programming at Makers, I often used analytical skills to solve complicated tasks. I used agile methodologies and TDD to break them into smaller ones and I was able to find solutions when working toward to them ([An example of analysing complicated logic: Bowling-Scorecard](#); [Another example: Break Ruby Quine into steps](#)). I also like analysing others code, from which I can leant from the code or carry on the work from other team members easily ([Example: Analysis on Count App](#)). Before Makers, I have been using the analytical skills and tools on project/tasks planning, budget control and research.

### Problem Solving

I have been practising and improving my problem solving skill across my education and career. Beside the outcome of solving problem, I also enjoy the process itself. From the [Codewar](#) to the projects in Makers, I am able to adopt variety of methodologies and processes plus multi-perspective thinking to draw solutions. I often help my cohort to debug their code and unblock the process. In SMT one of my task was to modify the project plan to align with changes from clients, and in CUDL solving ad hoc logistic issues or situations raised from clients or suppliers was daily job in term time of winter/summer schools.

## Additional Skills

- Full project lifecycle experience
- Bi-linguist, Fluent in English and Native in Mandarin

## Education

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### Makers Academy (March-2019 to April-2019(pre-course) && April-2019 to June-2019)

- OOP, TDD, Agile/XP
- Ruby, JavaScript, Python, Swift, Html, CSS, SQL, PostgreSQL, SQLite
- RSpec, Capybara, Jasmine, Nightwatch, unittest, XCTest
- Sinatra, Ruby on Rails, Node.js, Express.js

### Udemy (January 2019 - February 2019)

- C# Basics for Beginners: Learn C# Fundamentals by Coding
- Learn to Code with Ruby

### AXELOS (January 2017)

- PRINCE2 Project Management training
- PRINCE2 Foundation and Practitioner Certificate awarded by The Chartered Institute of IT

### University of Nottingham (September 2008 to December 2013)

- Ph.D in Environmental Engineering
- Thesis: Microwave Processing of Hydrocarbon Contaminated Soil
- Co-authored three scientific journal papers, two of them in Q2

### University of Nottingham (September 2007 to December 2008)

- Master in Environmental Engineering

### Nankai University (in China) (September 2002 to June 2006)

- Bachelor in Environmental Engineering, 2.1

## Experience

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More details in [CV prior to Software Engineer](#)

### China UK Development Ltd (CUDL) (12/2017–12/2018) --- *Assistant Manager*

Responsibilities:

- Lead the programme management and operation (report to Operation Director)
- Assistant on business development and partner relationship maintenance.

Major Achievements:

- Successfully operated 2018 winter/summer schools with in excess of 700 enrolment;
- Directed and organised the first international education summit when 14 collaboration MOU signed;

### Smart Manufacturing Technology Ltd(SMT) (04/2015–10/2017) --- *Project Manager*

Responsibilities:

- Translate the commercial contracts and technical document from English into Mandarin;
- Assistant on patent documentation and application;
- Full life cycle project management and client/supplier liaison;

Major Achievements:

- Secured the largest contract in the company at the time in automotive sector and successfully managed the project leading to another potential project;

### Jiangxi Academy of Sciences (in China) (05/2014–03/2015) --- *Research Associate*

- Published a scientific journal paper

## Interests

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I like solving mathematics problems. Beyond solving them, I enjoy the process of exploring solutions. I also like playing table tennis. I played with my teams during the breaks.