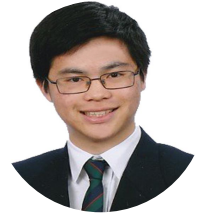


# JIAHUI CHEN

## Senior Computer Engineering Student

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🔗 [Personal Portfolio](#)



## EXPERIENCE

### Research Assistant @ Technology Enhanced learning Research Group

#### La Salle URL - GRETEL research group

📅 September 2021 - Ongoing    </> VueJS / ElectronJS

- Developed [jsMLA](#), a software that analyses students' generated Moodle logs and performs sentiment analysis from forums' chats. Starting from Jan 2022, the software will be used in different Spanish Universities and schools (La Salle URL, UPC, URV).
- Designed and engineered both front-end and back-end of the app.
- Applied Agile - Scrum methodology for team building and management.

### Systems Administration & Design TA

#### La Salle URL - Teacher Assistant

📅 June 2021 - Ongoing    </> C / Linux

- In charge of designing and developing the projects for Systems Administration, labs correction and office hour. Built a Linux Kernel Module (LKM) for a custom circuit board that interacts with a Raspberry Pi's GPIOs. The second project is a web server that controls the Pi with shell scripts.

### Data Structures & Algorithms TA

#### La Salle URL - Teacher Assistant

📅 September 2021 - Ongoing    </> Algorithms

- Designed and marked DSA course assignments. Also, solved students' inquiries for both national and international students.
  - Recursive Sorting Algorithms
  - Combinatorial Optimisation (Backtracking, Branch and Bound)
  - Trees & Graphs & Maps

### Advanced Operating Systems TA

#### La Salle URL - Teacher Assistant

📅 January 2022 - Ongoing    </> C / File Systems

- Marked "File System Reader" software assignment and solve students' inquiries.

### Web Development TA

#### La Salle URL - Teacher Assistant

📅 September 2021 - Ongoing    </> JS / NodeJS / VueJS

- Solved students' questions about JS, NodeJS and VueJS.
- Designed UI & UX for the web assignment.

### Build@Mercari

#### Mercari (株式会社メルカリ) - Apprenticeship

📅 May 2021 - May 2021    </> Software skills

- Improve software engineering skills through the training.
- Build a full-stack project [もくもく \(moku-moku lovers\)](#)
- Mercari's Engineering culture & DI philosophy

## EDUCATION

### Computer Engineering

#### La Salle URL

📅 Sept 2017 - June 2022

### Scientific & Technologic High School

#### La Salle Bonanova

📅 Sept 2015 - May 2017

## VALUES & STRENGTHS

Challenger

Eye for detail

Responsible

C

Java

SQL

System design

gRPC

VueJS

ReactJS

Micro-services

## LANGUAGES

English



Spanish



Catalan



Cantonese Chinese (Spoken)



## INTERESTS



Japanese

Interested in Japanese culture



Programming

do{Programming}while(alive)



Gaming

Ocasional Gamer

# RESEARCH EXPERIENCE

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## Moodle Learning Analytics - MLA

### Research Group Project - [Github Repository](#)

📅 Sept 2021 - Ongoing </> VueJS / ElectronJS

- An application that analyses students' generated Moodle logs and performs sentiment analysis from forums' chats. Starting from Jan 2022, the software will be used in different Spanish Universities and schools (La Salle URL, UPC, URV, etc).

## Heterogeneous Computing Farm

### Graduation Thesis

📅 Nov 2021 - Ongoing

- The purpose of this work is twofold. On one hand, a multi-layered distributed architecture will be designed to allow the deployment of several heterogeneous computing nodes on the edge. On the other hand, a software that determines the viability of the execution of the software to be deployed in the system, while optimising the use of resources, will be developed.

# PROJECTS

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## Hello World

### Personal Portfolio - [Github Repository](#)

📅 May 2021 - Ongoing </> Front-end: React

- My personal portfolio build with ReactJS, originally hosted in my Pi 4 server with Docker (Currently under maintenance). Now hosted in Github Pages.

## PDF Form Filler

### TEEM 2021 European Conference - [Github Repository](#)

📅 Oct 2021 - Ongoing </> Python

- Revamped PhD. Juan Cruz-Benito's open-source app that generates certificates filling PDF forms with data from CSV files.
- Integrated auto-mailing system after certificate generation.
- [Technological Ecosystems for Enhancing Multiculturality European conference.](#)

## LoL Champ Selector

### University Project- [Github Repository](#)

📅 March 2021 - June 2021 </> Back-end: Java & Front-end: ElectronJS

- A full-stack League of Legends chatbot. gRPC powers the communication between Electron client and Java server. It includes NLP leverage from DialogFlow.

## GeoReplication

### University Project - [Github Repository](#)

📅 December 2020 - January 2021 </> Ruby

- Data replication in a Distributed/Edge Computing system for data availability and reliability.

## Sallefy

### University Project - [Github Repository](#)

📅 March 2020 - July 2020 </> Java - Android

- A cloud streaming platform developed for Android mobile devices.