

Yuxin Gao

Computer Science & Mathematics

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Education

Bachelor of Computer Science and Internet Security Stream

Minor in Mathematics

Carleton University

10.05 /12 GPA

4th year Undergraduate

Expected Graduation on January 2019

Dean's Honor List

Entrance Scholarship

General In-course Scholarship

Top 20% in Euclid Mathematical Contest

Work Experiences

Software Developer May 2018 – Present,
Matrix Made Inc. Ottawa, Ontario

- Fully involved in building the front-end and back-end of the app for the company using React Native
- Writing RestAPI requirement
- Built database for the app using MongoDB
- Using Express Node.js framework to setup the server.
- Implementing social media features include upload, repost, comment, like, avatar, transaction etc.
- Using react-navigator to implement navigation features so that user can swipe between different screen module.
- Built musical.ly-style view and pagination of a bunch of videos from list, as well as the basic features of the video including play/pause, mute, share, and comment.
- Merged all the modules to different screens in one app, using swipe gesture to navigate each of them.

Skills

Language	Java, C, C++, Python, Scheme/Racket, Prolog, R
Web	JavaScript, HTML/CSS, Ajax, JSON, React Native, Node.js
Databases	Mongo DB, Oracle SQL, SQLite3
Machine Learning	openCV, Apache KUDU, TensorFlow, Numpy
Concepts	Data structure, UML, Public key encryption, linear algebra, Git, object oriented programing, Neural Network
Fluent in English and Mandarin	
Familiar with Linux/Unix operating system	

Project

Mini File System:	<ul style="list-style-type: none">• Using C and makefile concept• Build on Linux operating system• It is a File system on top of a virtual disk that having basic feature of file system like create, delete, open ,close ,read and write files
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Recipe web app:

- It is built with Express, generates an HTML view from a .pug template, responds to HTTP requests for data stored in a mongoDB instance.
- In client side, it is a single page app with jQuery AJAX interaction.
- It is a single-page app for retrieving and updating recipe. It will retrieve the recipe information as requested by users. Or user can update their own recipe.

Chat web app:

- Using Node.js and its built-in modules to create the webpage, using socket.io to implement interactive chat communication
- In client side, the browser provides a webpage from server including html, CSS and JavaScript
- It is a client-server single-page app allowing interactive chat communication have features like black-list and private message

Match (Concentrate) game:

- Using Node.js and its built-in modules to create the webpage
- In client side, the browser provides a webpage from server including html, CSS and JavaScript. Using JQuery library.
- Game description: there are 4*4 cards at the beginning, to win the game, the player needs to pair all the cards. The higher level of the game, the more cards.

Inventory Management Program:

- Creating UML including all the classes relations (stores, customers, orders, products, UI...), then using C++ to write code
- I learned the object-oriented software development, with emphasis on design and some concepts including abstraction, modularity, encapsulation and design patterns.

Other Experience

2015-2016

Paul Menton Centre, volunteer for Students with disabilities

2017.7-present

Manager Assistant at Cacao 70