

# Xiaohua Cai, Web Developer

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## SKILLS

### Languages & Frameworks

HTML/CSS/SASS, JavaScript, Python Flask, Java, Node.js, Express, React, jQuery, Bootstrap, Visual Basic

**Systems & Database:** Git/Github, MongoDB, PostgreSQL, MySQL, Heroku, Netlify

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## EDUCATION

### Web Development NanoDegree

Dec.2020-Mar.2021

Udacity

HTML/CSS/JavaScript, Node.js, Express, Webpack build tool

### Master of Science

Sep.2017-Dec.2018

University of Alberta, Edmonton AB, Canada

**GPA 3.7/4.0**

### Bachelor of Science

Sep.2013-Jun.2017

Fujian Agriculture and Forestry University, China

**GPA 3.7/4.0**

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## CODING PROJECTS

**Full Stack Chat App** | React | Node.js | Express | Socket.io | Deployed on Netlify, Heroku Apr.2021

- Created a real-time chat application using React on the front end, with Node.js, Express, Socket.io on the back end.
- Use client-side and serve-side WebSockets to create connections and broadcast message

**Live Page:** <https://608e25d60f7378ad3aba9eff--elated-jennings-f62dcf.netlify.app/>

**Repository:** <https://github.com/xiaohua2003/chat-app>

**Full Stack Aritzia-Feedback App** | Python Flask | PostgreSQL | mailtrap.io

May 2021

- Created a feedback application using Python Flask as back end and PostgreSQL as database, use mailtrap.io to send email

**Live Demo:** [https://www.youtube.com/watch?v=OKJ\\_Se5NL\\_Q&t=5s](https://www.youtube.com/watch?v=OKJ_Se5NL_Q&t=5s)

**Repository:** <https://github.com/xiaohua2003/Feedback-App>

**Full Stack Library App** | Node.js | Express | MongoDB | EJS | Deployed on Heroku

May 2021

- Launched a Library application based on Model-View-Controller design pattern, which allows user to add, search, update author and book information
- Used EJS view engine to render page for different requests
- Applied MongoDB NoSQL to update and delete author and book information

**Live Page:** <https://mybrary-by-xiao.herokuapp.com/books/new>

**Repository:** [https://github.com/xiaohua2003/Personal\\_library\\_](https://github.com/xiaohua2003/Personal_library_)

**Github Finder Web Application with react**

Apr.2021

- Designed a Github Finder application which allows user search Github User profile and Bio through retrieving data from the Github official API

- Researched React framework, built the application through React functional components, Hooks and Context
- Deployed application to Netlify

**Live Page:** <https://nifty-lichterman-b24cc3.netlify.app/>

**Repository:** <https://github.com/xiaohua2003/Github-Finder>

**Travel APP** | HTML | CSS | Javascript | Node.JS | Express

Mar. 2021

- Build a Travel application through HTML, CSS, JavaScript, Node.js, which informs users the current weather forecast if the trip within a week and predicts weather forecast if the trip is in the future. It displays an image of the location entered.
- Retrieved data from three API.
  - a. Pixabay API: display an image of the location entered
  - b. GeoNames API: retrieve coordinates
  - c. WeatherBit API: retrieve weather data

**Live Demo:** <https://www.youtube.com/watch?v=TUplPt2DwEc&t=37s>

**Repository :** <https://github.com/xiaohua2003/Travel-App->

## WORK EXPERIENCE

### Research and Development Scientist

SBI Fine Chemical Inc.

Jan.2019-Present

- Apply quantitative and mathematical data analysis to scientific researches
- Applied excel Macro programming to scientific researches

### Research Assistant

May.2018-Nov.2018

University of Alberta

- Analyzed data using excel software & plotted images using Adobe Illustrator software and graphed data using GraphPad Prism7
- Developed public speaking and communication skills by giving project presentations
- Demonstrated excellent written communication skills by writing a fifty-page project report.

### Research Assistant

Jan.2016-Jul.2016

Fujian Agriculture and Forestry University, China

- Scientific publication: <https://t-stor.teagasc.ie/handle/11019/2039>
- Applied ultrasound scientific and mathematical approaches for chemical researches

## SELECTED ACHIEVEMENTS

### Chinese State Scholarship

2016-2017

China Scholarship Council, China

- The scholarship is awarded based on academic performance & leadership

## VOLUNTEER EXPERIENCE & COMMUNITY INVOLVEMENT

### Classroom mentor

Jan.2018-Feb.2018

U School at University of Alberta, Edmonton AB

- Led and participated in students small group activities to help students with their journaling and

sketching

- Shared study experience at the U of A with U school students
- Led groups from one activity site to another and helped guide students around campus

**Volunteer**

Nov.2017

University of Alberta Invest in Your Future Career Symposium 2017, Edmonton AB

- Collaborated with other volunteers to guide conference attendees

**University of Alberta Open House Volunteer**

Oct.2016

University of Alberta, Edmonton AB

- Answered students' questions and shared study experience at University of Alberta

**Vice-President at Student's Club**

Sep.2014-Jul.2015

Faculty of Food Science at Fujian Agriculture and Forestry University, China

- Organized the Outstanding Alumni Events which invited outstanding alumni to share their working experience with the students
- Cooperated with other 7 club members to host the flea market to sell the used goods donated from students, and the money made from this event was donated to a rural primary school