

Zepeng Chen

My portfolios [↗](#)

About me a bit

I was an electronics engineer in China mainly focusing on embedded hardware system and sometimes assisting software team in writing drivers of MCU and FPGA. After three years of professional work, I moved to Australia as a backpacker working in farm, hotel, restaurant and meat factory for one and half years; and then I moved to Canada for working on the master's degree of computer engineering.



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github.com/zepsgit

SKILLS

JavaScript HTML CSS

React JSON REST API

Express Nodejs Java

Python MongoDB

Database SQL Git

Web Development

Machine Learning

Data Analysis Matlab

Sklearn Pandas Numpy

OpenCV

LANGUAGES

English

Full professional Proficiency

Chinese

Native or Bilingual Proficiency

INTERESTS

Coding

Basketball

Reading

Calligraphy

Travelling

Work Experience

Electronics Engineer

Alpha Networks Inc.

06/2016 - 05/2019

Chengdu, China

- Designed the schematics and layouts of PCB.
- Wrote driver of Flash memory and implemented the communication protocol between MCU and peripheral devices.
- Followed up mass production of an amount of 10k with the reject ratio under 0.5%.

Academic & Personal Projects

Personal Blog (03/2022 - 06/2022) [↗](#)

- Implemented the front-end pages using **React**, **JSX**, **CSS**.
- Connected server to **MongoDB** using **Mongoose**.
- Fetched and sent data via **Axios**.
- Designed routing with **Express**.

Marine Mammal Sound Classification (01/2022 - 06/2022) [↗](#)

- Fetched audio data, and built metadata for all audio files for machine learning and deep learning.
- Used **Python**, **Pandas**, **Librosa**, and **Scikit-Learn** in **Jupyter Notebook** to build machine learning models.
- Explored and learned different algorithms of machine learning and deep learning, and used **Keras** and **Tensorflow** to implement deep learning models.

Optical Music Recognition (05/2021 - 09/2021) [↗](#)

- Implemented several image pre-processing algorithms such as image filtering, binarization, and segmentation using **Python**.
- Employed **OpenCV** and **CNN** for image classification.

Education

Master of Applied Science in Computer Engineering

Memorial University of Newfoundland

05/2021 - 09/2022

St. John's, Canada

- GPA: 3.6/4.0

Bachelor of Engineering in Electronics Engineering

Hubei University of Technology

09/2012 - 06/2016

Wuhan, China

- GPA: 3.0/4.0