

Zhixing Zhang

Purdue Computer Science Student

Experienced with web, iOS and embedded system. Seeking for summer internship opportunities.

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Projects

Oct 2018 - Ongoing

Lyricly

Collaborative playlist and lyric visualization

Revolutionary web app to sync your playlist, music visualization and lyrics with your friends in realtime. Ideal for restaurants, parties or anywhere people gather.

- Spotify OAuth API
- Firebase Firestore for serverless deployment
- Vue.js Front-end GUI
- three.js for music visualization
- Synchronize music playback and visualization across devices

Dec 2017 - June 2018

TrainK

Train Trip Manager

Collecting data from 12306.cn and provide users with a intuitive report and analysis about their upcoming train journeys.

- History journey data collection and storage
- Train delay forecast and prediction
- Distributed Data scraping with Python, Celery and Scrapy
- Data storage and management using PostgreSQL
- Data Visualization using SVG and Canvas technology
- Python/Django RESTful Backend Development
- Frontend web application development based on Vue

July 2016 - Aug 2016

VEX Field Controller

A low-cost implementation of VEX Field Controller protocol using 8051 MCUs.

- PCB Designing
- 8051 MCUs and C programming
- Sold to other schools

Awards

Sept 16, 2018

Hello Tab - Best Overall

Hello World Hackathon | Purdue Hackers

An information hub that shows up whenever you open a new tab in Chrome or Firefox web browser.

- Vue.js, Webpack and Bootstrap
- Live2D technology to implement an interactive anime character
- Used Microsoft APIs to fetch outlook emails

Apr 2016

VEX Robotics World Champion

REC Foundation

- High-precision flywheel speed controlling
- Smart power distribution on multiple motors

Experiences

July 2018 - July 2018

DJI

Summer Intern

Working as a summer intern in DJI Robomaster Summer Camp program to conduct testing on the company's unreleased products by constructing and programming a simple robotic system.

- STM32 MCU Programming with C
- PID and close-loop controlling
- Testing existing Python APIs

July 2014 - Aug 2014

MacX.cn

Software Developer

Independently developing a Mac application using Swift and AppKit, which helps users to download and install applications for Mac computers.

- Swift and AppKit
- Nearly 2 million times of use

Education

Aug 2018 - May 2022

Purdue University

Computer Science, Bachelor of Science

- Working part-time as a software developer to help building a math assignment platform for the math department.
- Member of ACM SigBots; help building PROS(Purdue Robotics Operating System) and okapilib(Robotics Framework)
- 2nd Place in Sandia National Lab Space Blimp Coding Challenge @ Purdue

Skills

- Web Frontend Development

HTML CSS JavaScript Vue.js Data Visualization

- Web Backend Development

Django Python Celery Scrapy

- iOS/Mac App Development

Swift AppKit UIKit

Language

- English
- Chinese Mandarin