

## Zhongkai Liu

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### Experiences:

#### Backend Web Service Developer

Internship at The Home Depot | Atlanta, GA

- THD Web App Monitoring Dashboard API | Summer 2017

Retrieve application data from Google BigQuery, dynamically build application relationships, and aggregate metrics data into useful stats for displaying on dashboard.

- Payments Interceptor API | Summer 2016

Intercept payment requests, extract sensitive information, and encrypt payment numbers

#### Undergraduate Teaching Assistant

Database Systems and Programming Fundamentals II | University of Florida | Spring 2018

- Hold lab sessions, provide help to students, assist instructors with composing and grading assignments

Software Engineering | University of Florida | Fall 2017

- Lead discussions, help students with difficulties learning MEAN stack framework, assisting students with Agile development

#### Academic Tutor

University of Florida | Gainesville, FL | UF Semester Spring 2017

- Provide help and guidance for Computer Science students with questions from their class, homework, or projects.

#### Solar Car Captain

Western High School STEM Project | Davie, FL | August 2014 – May 2015

- Built an electrical car powered by batteries and solar panels from scratch

### Projects:

#### Eatwhere

- A web app developed with MEAN stack, a search engine for dishes. Given a set of preferences, find the dishes that best fit the user's appetite.

link: <https://eatwhereapp.herokuapp.com/>

#### UF Classroom Directory

- A web app that provide list and map view of UF buildings, written with MEAN stack.

link: <https://uf-directory.herokuapp.com/>

#### Smart Parking Simulator

- C++ application with GUI, aims to simulate a parking lot management system that keep track of available spots and assign/free spots as each customer enters/leaves the garage.

#### Personal Website

- A static website using jQuery and Bootstrap.

#### Game – TigerIsland

- Software Engineering team project, a java game with GUI and AI plays against other teams

#### PHP Tip Calculator

- A web app written in PHP that calculates tips for your group. Customize percentage and splits.

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### Coding Skills:

proficient with **Java** and **C++**; proficient in back-end development with **Node.js**, **Springboot**, and **PHP**; had written projects with **Bootstrap**, **Reactjs**, and **Angularjs**; intermediate experience with **MySQL**, **MongoDB**, and natural language processing using **Python**.

### Other Skills:

edit videos, Photoshop images, operate power tools, and speak fluent Chinese

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### Education:

#### Bachelor of Computer Science

College of Engineering, University of Florida | Gainesville, FL | Class of 2019

- GPA 3.84

- Relevant courses: Java & C++ OOP, Professional Communication for Engineers, Operating System Software Engineering, Digital Logic, Data Structures & Algorithms, Database & Systems, and Network Fundamentals

#### Standard High School Diploma

Western High School | Davie, FL | 2015

- GPA 4.84 (weighted) 3.95 (unweighted)

- 7 AP Courses: Calculus AB&BC, Physics B&C, Chemistry, Computer Science, Statistics