

# ZHAOYANG CHEN

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I am looking for an internship in the 2022 summer. I can do jobs related to Software Engineering or Data Science.

## EDUCATION

### University of Florida (UF)

M.S. in Computer Science; GPA: 3.44/4.0

Gainesville, FL  
Aug.2021-June.2023(expected)

### University of California, Berkeley (UCB)

Exchange Student

Berkeley, CA  
Aug.2019-Dec.2019

### University of Electronic Science and Technology of China (UESTC)

B. E. in Computer Science; GPA: 3.63/4.0

Honor: 2019&2018 Pacesetter Scholarship, 2017 UESTC Excellent Student Scholarship

Chengdu, China  
Sep.2016-Jun.2020

## WORK EXPERIENCE

### Biomedical Big Data Center of Sichuan University

Research Assistant

Chengdu, China  
Jul.2020-Jun.2021

- Collect clinical data on medical nursing and rehabilitation for the design of nursing robot control algorithms.
- Building a virtual robotic arm simulation platform based on ROS for verification and evaluation of the control algorithms.
- Implement the control algorithms on the UR10 Robot Arm to realize real-time robust region control.

### Hangzhou Xianyin Information Technology Co., Ltd

Data Analysis Assistant

Chengdu, China  
Jul.2019-Aug.2019

- Using data streaming APIs to obtain everyday advertising data and realize data chart visualization through Python.
- Design the architecture of databases and establish them for storing the advertising data based on MongoDB and Navicat.

## PROJECTS

### Udacity Nanodegree Program

Full Stack Web Developer

Oct.2021-Feb.2022

- Build a simple venue booking website for artists based on Flask and Postgres database.
- Implement and test APIs for a half-built trivia management app.
- Complete and optimize a drink menu app: Secure APIs; Build connections with frontend and backend; Add hosted authentication services.

### Climate Data Analysis & Visualization

Nov.2021-Dec.2021

- Collect 5-year climate data (temperature, pressure, humidity, wind speed, wind direction) for 30 cities in North America.
- Design the E-R graph and store the corresponding climate records (300k+) in the Oracle database.
- Using R Shiny (front-end) and SQL queries (back-end) to realize an interactive web application for climate data analysis.

### Time Series Data Analysis

Dec.2020-Jan.2021

- Build and train different forecasting models in R (ARIMA, ETS, Neural Network on Autoregressive) for the time series data based on Net Power Values (NPV).
- Compare the different models and forecast future data.

### National Mathematical Modeling Competition of China

May.2018-Sep.2018

- Participate in the National Mathematical Modeling Competition 2018 and take over paper writing and modeling.
- Systematically studied mathematical modeling methods, including data regression analysis, clustering algorithms, intelligent algorithms, combinatorial optimization, etc.

### Summer School at National University of Singapore

Jul.2017-Aug.2017

- Complete a one-month summer training in NUS, learning efficient algorithms for classic computing problems. The final project is realizing Community Detection by Grivan-Newman Algorithm in R language.

## CORE SKILLS

### Professional Competence

- Programming Language: C, C++, Python, R, SQL, Julia, MATLAB, Latex
- Technical Skills: Git, Linux, ROS, Bash/Shell, TensorFlow framework
- Years of experience in mathematical modeling and data science