

# JIAO Ruipeng

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## EDUCATION

### Newcastle University

Master of Computer Science

Newcastle, The United Kingdom

Sep. 2021 - present

**Core Curricula:** Database Systems, Web Technologies, Human Computer Interaction, Software Development, etc.

### Hebei GEO University

Bachelor of Engineering in Software Engineering

Shijiazhuang, Hebei, China

Sep. 2017-Jun. 2021

**Core Curricula:** Data Structure, Advanced Language Program Design, Arithmetic Design and Analysis, etc.

## EXTRACURRICULAR TRAINING

### Development project: Hospital Booking System

Nov. 2021-Apr. 2022

Team Leader

- ◆ Personal development of a system based on the SSM framework. Including a back-end management system and a front-end user system, using a separate front and back-end development model;
- ◆ Front-end environment built with nuxt. Using Vue framework and Element-UI for building front-end pages;
- ◆ SpringBoot and SpringCloud microservices architecture on the back-end, with the integrated application of AliCloud OSS, SMS service and WeChat login, WeChat payment and WeChat refund functions.

### Development project: Castle tour booking mobile app (Android)

Newcastle University, England

Team Leader

Jan. 2022-Apr. 2022

- ◆ Development project for a team of 6. Responsible for front-end UI design and implementation and optimization, involved in the implementation of some back-end functions and Firebase database connection and debugging;
- ◆ Design of the product using Figma and the addition of the Google Maps API for access to castle locations;
- ◆ Implementing multi-touch display components. Meanwhile, dealing with swipe event conflicts and problems encountered in HCI.

### Research Project: Nicholas Lane's Data Science and Deep Learning Lab, Oxford University

Student RA

Aug. 2020-Oct. 2020

- ◆ Optimization and testing of small target detection algorithms based on YOLOv5 model and YOLT model for satellite high-resolution images;
- ◆ In the algorithm section, managed for comparing different loss functions and applying them under the Linux system to achieve the optimal model;
- ◆ The model training section, managed for adjusting the depth and number of convolutional kernels of the four models in YOLOv5 and comparing the differences between the models;

## INTERNSHIP EXPERIENCE

### Dell Inc.

HGU, China

Campus Promoting Intern.

Dec. 2017-Mar. 2019

- ◆ Led a team of 100 members, taking over maintenance for clients on campus;
- ◆ Develop the reservation system independently to solve the problems of customer information centralization and low reservation efficiency;
- ◆ Executed information sessions and software promotion;
- ◆ The sales volume of my team in Q3 2018 reached about £ 23000.

## Campus Leadership Experience

### Ballroom Dance Club

HGU, China

President of Communication

Oct. 2017-Jan. 2020

- ◆ Managed the organizing inter-college ballroom dance events in Hebei from 2017 to 2020;
- ◆ Spearheaded, registration, entrance, and process of balls;

### Campus Volunteer

Student Volunteer

Sep. 2017-July. 2019

- ◆ A total of 41 hours of volunteer work
- ◆ Covered different types of work like traffic assistance and exam supporter.

## HONORS AND AWARDS

Junior (level 3) Industrial Internet – Industrial Internet Platform Development Engineer

2021

“Lan Qiao” Python & C/C++ Programming National Competition Excellence Awards

2020 & 2021

First-class scholarship of HGU

2020

“Three Good Students” of HGU

2017 & 2019

## ADDITIONAL INFORMATION

**Computer Skills:** JAVA, C/C++, Python, HTML5, CSS, JS, MySQL, Linux, Vue, Spring, SpringBoot,

**Language Fluency:** Native in Chinese; Fluent in English