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github.com/Zj-Lan

## **SKILLS**

C/C++

Java

Python

Unity

Unreal Engine 4

C#

Lipuy

Database

SOL

Git

Software Design

Version Control

Data Analysis

Machine Learning

Web Applications

## **LANGUAGES**

#### English

Full Professional Proficiency

Chinese

Native or Bilingual Proficiency

## **INTERESTS**

Video Games

Electronics

Basketball

Snowboarding

Music

# Zhijie Lan

Software Engineer

Passionate Software Developer with 3+ years of experience in building Windows and Linux applications for the *Air Traffic Control Automation System* with C++ / Java / Qt and more.

#### WORK EXPERIENCE

## **Software Engineer**

Wisesoft Co., Ltd.

09/2015 - 06/2019

Chengdu, China

Wisesoft, listed on the SZSE (Stock Code 002253), is a leading tech company providing proprietary solutions in China's air traffic markets.

Achievements/Tasks

- As a core programmer of the department, independently developed and maintained the core software of the Air Traffic Control Automation System (worth about \$3 million USD).
- Designed, developed, debugged, and tested the C++/Java/Qt software deployed in 10+ airports across China.
- Installed and configured the operating system (Windows/Linux) and database (Oracle) for the LAN system (10+ servers and 50+ clients) of the software.
- Handled more than hundreds of client needs, new features, and bugs of the software.
- Awarded The Best Employee of the Year 2016 (10 out of 500 employees), 01/2017.

### **ACADEMIC AND PERSONAL PROJECTS**

Unity Game Development (2020 - Present)

- C# / Unity
- Developed a 2D platform game, a third-person adventure game, and a first-person shooting game.
- All game demos can be played online (find my ePortfolio link on the left).

Marine Mammal Sound Classification (09/2020 - Present)

- Python / Machine Learning
- 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 methods.

PreZoom, Presentation Software with Animation (09/2020 - 12/2020)

- Java / Swing / GUI
- Developed a presentation application based on Java Swing GUI that combines features of PowerPoint, Prezi, and Keynote. (The Best Software Award,1 out of 12 groups)
- Designed the whole structure of the software, wrote automated tests for the program, and finished most of the documentation.
- As the team leader, divided programming tasks and assigned jobs to teammates, and managed the git repository and version control.

Vehicle License Plate Recognition (05/2020 - 08/2020)

- C++ / OpenCV / Machine Vision
- Developed an image processing program that can extract characters of vehicle license plates from images.
- □ Used **OpenCV** to preprocessing original images to locate and extract plate images.
- Used a pre-trained KNN model to recognize characters from plate images.

#### **EDUCATION**

## Master of Applied Science in Computer Engineering Memorial University of Newfoundland

09/2019 - Present

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Achievements

□ GPA: 3.88/4.0

## Bachelor of Engineering in Communication Engineering Chengdu University of Information Technology

09/2011 - 07/2015

Chengdu, China

St. John's, Canada

Achievements

- GPA: 3.1/4.0
- Third Grada Sah
- Second Grade Scholarship, 10/2013
- Third Grade Scholarship, 11/2012

Outstanding Leader of Student Union