

# Chen Jie

## Skills

- Over 10 years of programming experience in **C/C++**, proficient in **Python**.
- In-depth understanding of **Computer Vision (CV)**, including image processing, object detection, segmentation.
- Familiar with CV and NLP data processing, encompassing data preprocessing, model training, and quality assessment.
- Strong capability in handling data.

## Experience

### Machine Learning Software Engineer, Manpower

*October 2019 - Present*

- Designed and developed defect-detection CV algorithms/models for quality control in manufacturing at Apple Inc.
- Developed pipelines for data collection used in model training.
- Participated in projects involving data management and optimization using SQL/NoSQL databases.
- Utilized AWS services for deploying and scaling applications.

### Experienced Software Engineer, Ericsson

2017/09 – 2019/10

Packet Core Load Test Tool

The Dallas test platform is mainly responsible for the performance testing of key nodes in the telecom core network. It supports 2/3/4/5G network protocols using distributed system design based on Linux, virtualized container technology, and Intel DPDK-based package delivery engine.

- Building middleware using Mellanox (100G) and Intel (10G, 40G) network cards.
- Designed and implemented middleware using LACP, KNI, RSS, Flow Director, and Docker virtualization to accelerate packet sending.

**Senior Linux Software Engineer**, Cienet software technology

2015/03 – 2017/09

IoT Hub project / @Qualcomm Inc.

- Developed middleware on OpenWRT to support various Bluetooth protocol stacks such as csrMesh, BlueZ, and bluetopia (including SPPLE, A2DP).
- MCU and iOS ble App development.
- Developed App for the OpenWrt router project using Python programming language, including xmpp, http, and rsa functions.
- Worked on developing and maintaining WiFi drivers.
- Developed the Bluetooth module for the Coprocessor project, including application based on 6lowpan and lwIP protocols.

**Software Engineer**, Quectel wireless

2011/11 – 2015/03

Wireless module

- Designed, developed, and tested device drivers for baseband chips used in wireless communication systems (GSM, LTE).
- Developed and maintained Bluetooth device drivers for Linux system.
- Developed and tested software for the control module of a streaming video surveillance system, ensuring seamless integration with other system components.

**Software Engineer**, Sanzheng electronics

2010/10 – 2011/10

Control System Data Collection and Signal Processing in Instrument Diagnostics

- Developed software to collect data from control systems and instruments, ensuring reliable and accurate data acquisition for use in diagnostic processes.

## EDUCATION

**Huainan Normal University**

Fall 2007 – May 2011

Bachelor's degree, Automation

Undergraduate Coursework: Mathematics for Computer Science; Data Structure and Algorithm; Analog and Digital Circuits; Digital Signal Processing; Control Systems; Robotics; Computer Vision; Artificial Intelligence.

## LANGUAGES

- Strong written and verbal communication in English.