

# Juntao Chen

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## EDUCATION

### Sun Yat-sen University

BEng in Software Engineering

*Ranked #39 in Best Universities for Computer Science & Engineering, Shanghai Ranking 2022*

*Ranked #46 in Best Universities for Computer Science, U.S. News*

GPA: 3.8/4.0 IELTS: 7.5 (Listening 8.5, Reading 9, Writing 6.5, Speaking 6.5)

#### Major Projects:

- Campus Food Delivery Platform: A campus food delivery platform that includes a merchant side and a customer side.
- Parking Management System: A system for managing the entry and exit of vehicles in a smart parking lot.

### The Chinese University of Hong Kong.

Jan 2023 - Apr 2023

*International Asian Studies Program*

- Participated in the APRU online exchange program.
- Completed the "Globalization and Culture" course with outstanding performance, earning commendations.
- Enriched experience in international learning and cultural exchange.

## RESEARCH EXPERIENCE

### University-level Innovation Project on Gradient-free Federated Learning

Sep 2022 - Present

Sun Yat-sen University, School of Software Engineering

Role: Core Member

**Advisor:** Professor Xiaoyu He

**Research Focus:** Investigated gradient-free federated learning techniques for devices with suboptimal performance. Simplified federated learning deployment through automatic parameter selection based on problem characteristics.

#### Key Achievements & Responsibilities:

- Developed a framework for federated learning.
- Evaluated code efficiency in logistic regression problems on datasets such as mnist and rcv1 using methods like gradient descent and minibatch-SGD.
- Designed an auto-tuning algorithm for improved execution speed.
- Reviewed literature extensively on feature selection, hyperparameter tuning, and machine learning classification algorithms. Integrated findings into our methodology.

## SKILLS LIST

- Programming: Python, C++, java, go, MATLAB
- Data Science & Machine Learning: TensorFlow, PyTorch
- Databases: Oracle, SQL

## INTERNSHIP EXPERIENCE

### Evecom Technology Co.,Ltd

Jul 2023 - Aug 2023

Java Backend Developer

Recognition: Ranked among Top 50 Big Data Companies in China

- Enhanced a Java tool's accuracy from 40% to 95%. The tool extracts and organizes legal knowledge from Word documents.
- Utilized SVN for version control and delved into the company's codebase to grasp enterprise coding standards and industry-specific development processes.

### AsiaInfo Technologies(China),Inc

Jan 2023 - Feb 2023

Oracle Database Developer

Recognition: Largest Telecom Software Developer in the Chinese Communication Sector

- Under senior engineers, optimized Oracle database systems for enhanced performance and reliability.
- Assessed and revised existing database structures for efficiency.
- Managed daily database operations, troubleshooting, and performance tuning.
- Acquired familiarity with the company's system architecture and business processes, appreciating the inter-departmental collaboration.

## HONORS & AWARDS

Third Prize, Chinese College Students Mathematical Modeling Contest, Guangdong Province

September 2022

Innovation Award, HSBC Software Girls Hackathon

June 2023