

# Zhongbo Yan

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## EDUCATION

- **Macao Polytechnic University** Macao SAR, China  
*Bachelor in Computer Science; GPA: 3.67 / 4.0*  
*Full Scholarships, Top 5% Student.* Sep 2019 - Aug 2023
- **University of Bologna** Bologna, Italy  
*Summer School in 'Smart Objects and Applications'* Jun 2021 - Jul 2021

## SKILLS SUMMARY

- **Languages:** Mandarin(Native), Cantonese, English(IELTS 7.0)
- **Programming Skills:** Python, JavaScript, Java, C++, SwiftUI; Vim, Docker, Vue.js, React Native, FastAPI, DBMSs, MATLAB

## RESEARCH EXPERIENCE

- **Adversarial Training as Data Augmentation Method:** Research on adversarial examples driven Data Augmentation on CNN. Currently working on publishing a paper on an international conference. Link: <https://github.com/Ex10si0n/research>

## WORK EXPERIENCE

- **BluPurple** Macao SAR, China  
*Full Stack Developer Internship: Google Firebase, React Native, SwiftUI* Sep 2022 - Oct 2022
- **China Mobile** Liaoning, China  
*Ops and Linux Maintenance Internship* Jun 2022 - Aug 2022
- **Macao Polytechnic University** Macao SAR, China  
*Interest Group Lecturer* Aug 2021 - Aug 2023
  - **Algorithms:** Worked on 7 courses on data structure and algorithms. Lecture Link: <https://algo.aspires.cc>
  - **Machine Learning:** Worked on 6 courses on machine learning. Lecture Link: <https://pyml.aspires.cc>
- **Hong-Kong Data Lab** Macao SAR, China  
*Participated as a student member, given a presentation on web scraping, participated hackathons* Jun 2021 -

## PROJECTS

- **MPark (iOS Apps Development):** Developed an iOS App for assisting in finding parking lots in Macao SAR. <https://github.com/Ex10si0n/MPark> (Sep '22)
- **ReedNote (Full-stack Development):** Developed a WYSIWYG markdown editor using Vue.js, Strapi CMS. Implemented an Electron Desktop App. Link: <https://github.com/reednote-team> (Dec '21)
- **Untitled Roguelike Game (Game Design & Dev):** Implemented an auto-generated level Rogue-like Game using Pyglet. Link: <https://github.com/Ex10si0n/dungeon-roguelike> (Oct '21)
- **Hzip (Algorithms Implementation):** Implemented a build-from-scratch file compressor based on Huffman Coding. Link: <https://github.com/Ex10si0n/hzip> (Aug '21)
- **Canarin Dashboard (Data Visualization & Web Dev):** Developed a dashboard for visualizing the data collected by Canarin II air quality detectors in Università di Bologna. Link: <https://github.com/Ex10si0n/Canarin-Dashboard> (Jun '21)
- **Colorfulconsole (Python Packages):** Implemented and published a python package for rich text output in console. Link: <https://pypi.org/project/colorfulconsole/> (May '21)
- **Delivery Management System (Web Framework Dev):** Implemented a plugin-based back-end rendered MVC web framework from scratch (no third-party packages were used) for an outsourcing project of a logistics company. Link: <https://github.com/GGN-2015/minimal-picture-bed-server> (Aug '20)

## HONORS AND AWARDS

- **Third Price of 'Citi Cup' Competition in Finance Innovation by Citi Group (Jun '22):**  
'Opt-Liquidity' early warning and matching optimization system for term mismatch risk of commercial banks in the context of digital CNY – based on deep learning DEEPAR prediction method
- **Bronze Award of Challenge Cup by China Ministry of Education (Dec '20):**  
Online handicrafts selling platform
- **Ranking 6/67 in Tesla Super Cup Machine Learning Group by Tesla Inc. (Jun '20):**  
Domain of data cleansing, visualization, analysing and clustering
- **Full Scholarship for Exceptional New Students from Mainland China by Macao Polytechnic University (Sep '19)**
- **First Award of National Olympics of Informatics in Liaoning Province by China Computer Federation (Nov '18)**