Zhicheng Zhang

Portfolio: zzwarn1998.github.io
Github: github.com/ZZwarn1998

Email: zwarncheung@163.com
Mobile: +xx-xxx-xxxx-xxxx

EDUCATION

- **China University of Mining and Technology** | School of Computer Science and Technology
  B.E. of Electronic Information Science and Technology | Sep 2017 - Jun 2021 | Xuzhou, Jiangsu
  GPA: 4.1039/5 (88/100) **Ranking**: 4/116

  Courses: *Data Structure, Computer Organization Principles, Operating System, Computer Network, Database Principles, Advanced Programming Language, Linear Algebra, Discrete Mathematics, Android Application Development, Machine Learning, etc.*

ACADEMIC EXPERIENCE

- **An Empirical Study of the Selection Benchmarks for Multiple Pull Requests (*link*)**
  Southern University of Science and Technology | Aug 2022 - Nov 2022
  - Wrote an analyzer of pull requests to complete the exploratory task of analyzing the relationship between merge decisions and multiple pull requests' features.
  - Developed a ***thesis proposal*** after reading papers and analyzing more than 300 groups of collected multiple pull requests.

- **Teaching Assistant in CSE304 Software Engineering & CSE309 Software Testing**
  Southern University of Science and Technology | Sep 2021 - Jun 2022
  - Answered questions and graded assignments, projects, and exam papers.

PUBLICATIONS

- **Generation Method of Class Integration Test Order Based on Deep Reinforcement Learning**
  China University of Mining and Technology | 3rd Author | Feb 2023
  - Analyzed static information of Java projects with Soot and extracted information about inter-class relationships, such as inter-class coupling value, attribute dependence, method dependence, and the type of inter-class relationship.
  - Within the framework of the deep reinforcement learning model, designed and realized crucial components, such as the reward-punishment mechanism, reward function, and state transition mechanism.
  - Fine-tuned parameters to maximize the performance of the method and design experiments to evaluate its performance.

PROJECTS

- **ImgCoSys(Image Compression and Decompression, Network Communication)**: This is a course project in Image & Video Compression and Network. In the project, I realized a simple image compression system where clients can upload or download images via network communication. Please follow the ***link*** for more information. Tech: Python, Socket (Jun 2022)

- **MTSP-NSGA-II(MTSP, NSGA-II)**: This is a course project in Advanced Artificial Intelligence. As a team leader, after reading papers, I, together with other two classmates, applied NSGA-II to the problem of the Multiple Traveling Salesmen Problem. Please follow the ***link*** for more information. Tech: Python (Dec 2021)

- **ClsCheckIn(Android Development, Class Check-in Application)**: This is a school-level undergraduate innovation and entrepreneurship project. The Android application is used for helping professors know the attendance of their classes. In the project, as a leader, I organized a 4-people team, and we worked together to realize it. Please follow the ***link*** for more information. Tech: Java, JavaScript, Java Servlet, MySQL, Python (Jun 2020)

- **PicDisposal(Android Development, Image Processing)**: This is a course project in Electronic Information Processing Curriculum Design. The application allows users to apply various image processing to images, such as *Cartoon*, *Nostalgia*, and *Concave*. Please follow the ***link*** for more information. Tech: Java, JavaScript, Java Servlet, Python (Apr 2020)

ACADEMIC AWARDS

- The First Prize Scholarship of China University of Mining and Technology (4000¥) - Dec 2020
- The Third Prize in the 10th MathorCup Mathematical Modeling Challenge (Undergraduate Group) - Jun 2020
- The First Prize Scholarship of China University of Mining and Technology (4000¥) - Dec 2019
- The Third Prize in the 13th Chinese Mathematics Competitions (Non-Mathematics) - Nov 2019
- The First Prize Scholarship of China University of Mining and Technology (4000¥) - Dec 2018
- The Second Prize in the Huawei Cup Programming Contest of CUMT (Basic Group) - May 2018