

XURAN ZHENG

✉ zxrshawn@gmail.com [blog](#) [pandalandala](#)

Education

Korea Advanced Institute of Science and Technology (KAIST) Aug 2024 (Predicted)
M.S. in Electrical Engineering Daejeon, Korea

Harbin Institute of Technology (HIT) (C9 League) Sep 2020 – Jul 2024
B.Eng. in Computer Science; GPA: 88.06/100; GPA from 3rd year: 92.0/100 Harbin, China

Research Interest: Deep Learning, NLP, LLM, Recommending System

Work and Research Experience

Intelligent Interface and Human-Computer Interaction Lab (IIHCI) Feb 2024 – Present
Research Intern, Advisor: [Shaohui Liu](#) Harbin, China

- **Keywords: Deep Learning, Vision Model, Object Recognition.** Proposing a simple but effective method named *Partial Deepfake Detection Model* to reduce the influence of *Inner Feature Leakage*.
- Designing a *Manipulation Trace Detection Module* to pay less attention to the global personal features on images; designing *multi-scale deepfaking* to get position annotation of new fake images.

Yitong Intelligence Technology | [Link 1](#) | [Link 2](#) Jan 2024 – Apr 2024
Development Intern, Advisor: [Guoxin Wu](#) Harbin, China

- Implemented the overall front-end framework of a virtual hardware ultra-real-time simulation system.
- Conducted systematic testing on different .idl files and implemented the communication within RTI Connexx DDS C++ & JavaScript and FastDDS with multiple data formats.

Chinese Academy of Sciences | [Link](#) May 2023 – Oct 2023
R&D Intern, Advisor: [Peidong Liang](#), [Xian Wei](#), Shanghai, China

- Detected dynamic pedestrians and obstacles in simulation maps by using LiDAR camera and path planning algorithms.
- Implemented **16** algs using AMCL localization, expanded original ROS package, including A*, D*, ACO, I-RRT, etc.

Professional Projects

Frontend UI Components Library | [Vite](#), [TypeScript](#), [Less](#), [VitePress](#) Dec 2022 – Feb 2023

- Implemented a comprehensive suite of UI tools offering **17** components of **5** major categories and **219** APIs / properties to help developers ship new features faster.
- Released *ByteUI*, supported by Alibaba Cloud; being available at [npm](#) and gained **700+** downloads so far.

Business Management System | [Springboot](#), [Vue](#), [MySQL](#), Advisor: [Guoxiang Fan](#) Oct 2022 – Jan 2023

- Leded developing a transaction management system containing 8 main functional modules (including gaining and redeeming points, membership services, etc.
- Implemented circuit breaker, fallback and load balancing with *Sentinel*; Improved system performance by **37%** (JMeter).

To-Do List App with Kaldi | [JavaScript](#), [CSS](#), [Kaldi](#), Advisor: [Xin Lyu](#) Jul 2022 – Aug 2022

- Developed an application of to-do list, which supports adding and deleting tasks, voice inputting, generating task statistics, inputting items, classifying items by progress, getting deadlines overview, etc.
- Released *ToDoList* at Xiaomi Appstore, ranking **2/70** in class.

Skills

Languages: English (IELTS 7.0), Chinese Mandarin (native), Korean (intermediate)

Skills: Java, Python, C, JavaScript, SQL, LaTeX, Pytorch, Linux, Git, Node.js, Vue.js, SpringBoot

Interests: [Rubik's Cube](#), Language Learning, Swimming, Volunteering (100hrs+)

Honors and Awards

[2023 KAIST EE Camp](#), Travel Award, All Applicants Worldwide **Top 1%** Seoul/Daejeon, Korea, Aug 2023

The 12th “Zuguang Cup” Creative Innovation and Entrepreneurship Competition, **Outstanding** Award Jun 2022

The 7th China Int’l “Internet+” Student Innovation and Entrepreneurship Competition, Nationwide **Top 1%** Nov 2021

People’s Scholarship of China, School-wide **Top 10%** Jul 2021

HIT Freshman Year Innovation Project, First Prize, ranking **2/28** May 2021

The 12th National University Mathematics Competition, Third Prize, **Top 10%** Nov 2020