Guanyan Ou

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🎓 Major in Software Engineering   🏛 Sun Yat-sen University   🎂 Oct. 2001

Fourth year undergraduate student. Recently researching on trustworthy AI under guidance of Asst. Prof. Weibin Wu. Interested in AI, computer security and privacy, having submitted a paper to AAAI-24. Used to win second prize of SYSU-CPC twice. Python and Java are most frequently used programming languages.

🔧 Competences & Languages

App Development	Back-end: Java, Springboot; Front-end: React, JavaScript, Typescript; C#
AI & Data Analysis	Python; PyTorch; SQL; R language
3D Modeling	Cinema 4D
🅰🈂 **Languages**	**Chinese** — Mandarin, Cantonese
	English — TOEFL: 105 (R-29, L-28, S-23, W-25) (Sep/09/2023)

🎓 Education

Expected Jul. 2024	School of Software Engineering, **Sun Yat-sen University**
Sep. 2020	Bachelor in Software Engineering, GPA: 3.8/4.0, 3.7/5.0

⚛ Research and Contests

> **Paper (Submitted to AAAI-24)**: Improving Transferable Targeted Adversarial Attacks with Model Self-Enhancement - **Co-first Author**
> - Purpose a new state-of-the-art method
> - improve the success rate of targeted black-box adversarial attack Towards computer vision models
> - Implements our and predecessors' methods with *PyTorch*

> **Patent**: A Kind Of Recognizing And Defense Method And Device Against Misleading UI - **Third Author**
> - Android app to help users identify fake UI patterns, such as fake closing buttons
> - Protect users from being misled and triggering unexpected activities by blocking part of inputs
> - Train a computer vision model *YOLO v5* with *PyTorch*

> **Ongoing Research** : Red-teaming Toward Large Language Models
> - Induce generative language models to produce harmful outputs
> - Generate human-comprehensible and natural prompts
> - Can be applied to attack black-box models

> **Contest**: Collegiate Programming Contest of Sun Yat-sen University (SYSU-CPC) - Second Prize (2021)

> **Contest**: Citi Financial Innovation Application Competition (Citi Cup) (2021)

> **Contest**: Collegiate Programming Contest for Novice of Sun Yat-sen University - First Prize (2021)

> **Contest**: Collegiate Programming Contest of Sun Yat-sen University (SYSU-CPC) - Second Prize (2022)

</> Projects and Experiences

> **Blog Project**: Multi-user blog system based on React and Springboot
> This project is part of the assignments of "Intermediate Training for Software Engineering" of SYSU. This project adopt the design of separation of front-end and back-end, having implemented functions of *Markdown* writing and admin panel, etc.

> **RPCpico**: RPC implementation with Java, HTTP and Protobuf
> This project is part of the assignments of "Computer Network" course of SYSU. It implements a remote procedure call (RPC) program with HTTP protocol and Protobuf encoding. It provides with relatively high performance and easy adaptation to multiple platforms.

> **Animation for Product Demo**
> An animation clip created with *Cinema 4D* is a demo about an innovative device helping people with disabilities ingest fluid food.