

# Tangyuan (Daniel) Zhang

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## EDUCATION

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SHANGHAITECH UNIVERSITY, Shanghai, China

Sept. 2020 - Expected Jun. 2024

*Bachelor of Science Candidate, Computer Science and Technology*

## EXPERIENCE

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SHANGHAITECH UNIVERSITY, Shanghai, China

*Undergraduate Researcher, ASPIRE (AI Security, Privacy, and Robustness) Lab*

Aug. 2023

PI: Wenjie Wang

- Researching on improving security and privacy of large language models, such as BERT and GPT.
- Researching on prompts and reimplementing code to find vulnerabilities by simulating attacks on neural networks.

*Undergraduate Researcher, CAT (Code Analysis and Testing) Lab* | PI: Yutian Tang Mar. 2021 – Sept. 2021

- Detected and exploited vulnerabilities in Android system's accessibility service by studying API documentation to find logic weaknesses.
- Focused on the drawback of the design in accessibility service and applied various techniques using Java and Kotlin to bypass the security mechanism to retrieve sensitive information, such as password input by remotely monitoring screen.

SHANGHAI LUOSHU INVESTMENTS CO., LTD., Shanghai, China

Aug. 2022 – Dec. 2022

*Python Developer Intern, IT2*

- Developed and maintained the company's quantitative and high-speed trading systems and company's automation platform for daily uploading and running of scripts.
- Developed data platform and factor platform.

SHANGHAI SHUDAN INFORMATION AND TECHNOLOGY, Shanghai, China

June 2022 – July 2022

*Python Developer*

- Developed and maintained Web3.0 and NFT crawler using HTML, JavaScript, and Python for reverse engineering and decompilation to retrieve and aggregate data for customers to make trading decisions.

## PROJECTS

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*Chrome Dino Runner Game(RISC-V Architecture)*

- Implemented Chrome Dinosaur Game on the Longan Nano development board in RISC-V architecture.
- Designed user interface with physical buttons and animation drawing in assembly language.

*Stock Movement Prediction Based on Social Media Text And Sentimental Analysis*

- Designed an automatic crawler to retrieve data from Twitter and stock news.
- Designed an efficient way to pre-process collected data and apply feature engineering.
- Implemented several machine learning models(LSTM, XG Boost, RF Regression..) to predict the stock price and make comparison between them to find which achieves the best performance.

## ACTIVITIES

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SHANGHAITECH UNIVERSITY

June 2021

*Volunteer, Shanghai, China*

- Volunteered to support welcoming activities for university opening week

*Volunteer, Social Practice Project, Wase Township, Dali City, Yunnan Province*

Aug. 2021

- Created curriculum with team for *Intro to IT* and taught the course to rural middle school students
- Learned traditional dyeing techniques for coloring clothes.

## SKILLS AND AWARDS

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- Languages: Chinese (Native), English (Fluent).
- Computer Skills: Python, Java, HTML/CSS, JavaScript