

# Yuting Zhou

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## EDUCATION

<b>Rutgers University</b> , New Jersey, US	09/2024 - Present
<ul style="list-style-type: none"><li>• <b>Major:</b> M.S. student in Computer Science</li></ul>	
<b>Shanghai Institute of Technology</b> , Shanghai, China	09/2020 - 06/2024
<ul style="list-style-type: none"><li>• <b>GPA:</b> 3.7, Ranking Top 10%</li><li>• <b>Major:</b> Bachelor of Engineering in Software Engineering</li></ul>	

## AWARDS & CERTIFICATES

- School-level Scholarship: 2nd Prize (2023, 2022), 3rd Prize (2022, 2021, 2020)
- Alibaba Cloud Certified Associate - Big Data
- Huawei Certified ICT Associate - Intelligence Computing

## RESEARCH EXPERIENCE

<b>Research Assistant</b>   Python, PyQt, Pandas, NumPy, Ollama	06/2025 - Present
<b>RUTGERS Center for Advanced Infrastructure and Transportation (CAIT)</b>	New Jersey, United States
<ul style="list-style-type: none"><li>• Assisted with the preparation and validation of data for the rail network modelling project.</li><li>• Enhanced the NJT Graph script and developed a cross-platform Qt interface.</li><li>• Integrated LLM APIs and deployed local LLMs to automate data processing and consistency checks.</li></ul>	

## INTERNSHIP EXPERIENCE

<b>Front-end Engineer</b>   JavaScript, Vue, WebSocket, MongoDB	06/2023 - 08/2023
<b>Shanghai Tenchii Digital Tech Co., Ltd. (Tencent × Shanghai Metro Joint Venture)</b>	Shanghai, China
<ul style="list-style-type: none"><li>• Optimized UX performance for the official Shanghai Transit App.</li><li>• Restructured website features to align with evolving business objectives.</li><li>• Assisted in developing a real-time lottery barrage system using Vue and WebSocket.</li><li>• Developed internal interface prototypes for cross-team implementation.</li></ul>	
<b>Software Test Engineer</b>   Pytest, JUnit, Selenium	06/2022 - 09/2022
<b>Shanghai Spacecraft Electromechanical Equipment Co., Ltd.</b>	Shanghai, China
<ul style="list-style-type: none"><li>• Established a comprehensive testing environment, executed test cases, provided technical guidance on configurations and hardware requirements.</li><li>• Identified and analyzed system defects and performance issues, delivering in-depth testing reports.</li></ul>	

## PROJECT EXPERIENCE

<b>AyeNote Online Cloud Notes</b>   Vue 3, Django, MySQL, BeautifulSoup	GitHub	05/2022 – 04/2023
<ul style="list-style-type: none"><li>• Implemented a data pipeline with BeautifulSoup to restructure large volumes of web content</li><li>• Integrated LLM APIs to support intelligent content extraction and automated summarization</li><li>• Built a cloud-based notes platform enabling user collaboration and real-time data updates</li></ul>		
<b>King of Bots</b>   Vue 3, Spring Boot, MySQL, WebSocket, JWT	GitHub	05/2022 – 11/2022
<ul style="list-style-type: none"><li>• Built a full-stack interactive web platform combining Vue 3 and Spring Boot</li><li>• Designed RESTful APIs with JWT authentication for secure communication</li><li>• Developed a real-time battle system and intelligent matchmaking using WebSocket for low-latency player interactions</li><li>• Strengthened data protection with salted MD5 hashing and reliable persistence in MySQL</li><li>• Enhanced the user experience through a responsive Bootstrap 4 interface</li></ul>		
<b>Real-time Pose Estimation</b>   MoveNet, PyTorch, TensorFlow	GitHub	09/2023 – 05/2024
<ul style="list-style-type: none"><li>• Applied Google MoveNet for fast skeletal keypoint detection with real-time responsiveness</li></ul>		

- Designed evaluation logic to compare detected poses against references, providing instant accuracy feedback
- Enabled recognition of multiple exercise types (squats, push-ups, pull-ups) within a single model
- Implemented live tracking and scoring features, creating an interactive workout feedback system

## EXTRACURRICULAR EXPERIENCE

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**Member, Algorithm Competition Club**, Shanghai Institute of Technology 09/2022 - 05/2023

- Organized club activities and assisted the president in writing course plans.

**Member, P.L Software Engineering Club**, Shanghai Institute of Technology 03/2021 - 05/2023

- Responsible for answering questions and resolving doubts for members.

**Member, Robot Enthusiasts Association**, Shanghai Institute of Technology 02/2021 - 05/2023

- Managed daily club administrative operations, including preparing equipment and coordinating activity planning.

## SKILLS & LANGUAGES

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<b>Programming</b>	C++, Java, Python, Go
<b>Operating Systems</b>	Windows, Linux, macOS
<b>Databases</b>	SQLite, MySQL, Redis, MongoDB
<b>Frontend</b>	HTML, CSS, JavaScript, Node.js, Vue 3, React, Next.js
<b>Backend</b>	Spring/Spring Boot, Django/Flask/FastAPI, Gin/GORM, RESTful APIs, Microservices
<b>Containers</b>	Docker, Kubernetes (K8s)
<b>Data &amp; ML</b>	NumPy, Pandas, scikit-learn, PyTorch/TensorFlow
<b>Languages</b>	English, Mandarin Chinese ( <i>bilingual</i> )