Yuting Zhou

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EDUCATION

Rutgers University, New Jersey, US   09/2024 - Present
- **Major:** Master Student in Computer Science

Shanghai Institute of Technology, Shanghai, China   09/2020 - 06/2024
- **GPA:** 3.7, Ranking Top 10%
- **Major:** Bachelor of Engineering in Software Engineering

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

Research Assistant | Python, PyQt, Pandas, NumPy, Ollama   06/2025 - Present
RUTGERS Center for Advanced Infrastructure and Transportation (CAIT)   New Jersey, United States
- Assisted with the preparation and validation of data for the rail network modelling project.
- Enhanced the NJT Graph script and developed a cross-platform Qt interface.
- Integrated LLM APIs and deployed local LLMs to automate data processing and consistency checks.

INTERNSHIP EXPERIENCE

Front-end Engineer | JavaScript, Vue, WebSocket, MongoDB   06/2023 - 08/2023
Shanghai Tenchii Digital Tech Co., Ltd. (Tencent × Shanghai Metro Joint Venture)   Shanghai, China
- Optimized UX performance for the official Shanghai Transit App.
- Restructured website features to align with evolving business objectives.
- Assisted in developing a real-time lottery barrage system using Vue and WebSocket.
- Developed internal interface prototypes for cross-team implementation.

Software Test Engineer | Pytest, JUnit, Selenium   06/2022 - 09/2022
Shanghai Spacecraft Electromechanical Equipment Co., Ltd.   Shanghai, China
- Established a comprehensive testing environment, executed test cases, provided technical guidance on configurations and hardware requirements.
- Identified and analyzed system defects and performance issues, delivering in-depth testing reports.

PROJECT EXPERIENCE

AyeNote Online Cloud Notes | Vue 3, Django, MySQL, BeautifulSoup   GitHub   05/2022 – 04/2023
- Implemented a data pipeline with BeautifulSoup to restructure large volumes of web content
- Integrated LLM APIs to support intelligent content extraction and automated summarization
- Built a cloud-based notes platform enabling user collaboration and real-time data updates

King of Bots | Vue 3, Spring Boot, MySQL, WebSocket, JWT   GitHub   05/2022 – 11/2022
- Built a full-stack interactive web platform combining Vue 3 and Spring Boot
- Designed RESTful APIs with JWT authentication for secure communication
- Developed a real-time battle system and intelligent matchmaking using WebSocket for low-latency player interactions
- Strengthened data protection with salted MD5 hashing and reliable persistence in MySQL
- Enhanced the user experience through a responsive Bootstrap 4 interface

Real-time Pose Estimation | MoveNet, PyTorch, TensorFlow   GitHub   09/2023 – 05/2024
- Applied Google MoveNet for fast skeletal keypoint detection with real-time responsiveness

- 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

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

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