

# Huien Tan

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## EDUCATION

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### Leiden University, Faculty of Advanced Computer Science

*MSc in Creative Intelligence and Technology; GPA: 8/10*

Leiden, the Netherlands

2023 – 2025

### University of International Business and Economics & University of Chicago

*BA in Language and Computer Science; GPA: 87/100*

Beijing, China & Remote

2019 – 2023

## EXPERIENCE

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### Royal Schiphol Group | Software Developer Intern @ Innovation Hub

Jun 2024 – Aug 2024

- Developed a real-time multilingual AI assistant deployed to airport kiosks, enhancing passenger accessibility.
- Built backend in **Python** using **FastAPI**; integrated **OpenAI Whisper** for speech recognition and **GPT-4** for response generation.
- Implemented software engineering practices of **Retrieval-Augmented Generation (RAG)** via **Azure Cognitive Search**; containerized microservices with **Docker** and deployed via **Azure DevOps Pipelines** with automated lint/test/stage workflows.
- Optimized inference pipeline with asynchronous job queue (**Celery** + **Redis**), reducing average response latency by 30%.gained hands-on experience in building and deploying distributed systems at scale.

### United Nations | Full Stack Developer Intern @ UNICRI Center for AI and Robotics

Jul 2024 – Jan 2025

- Committed to building a multilingual child-protection platform using the **Laravel MVC** framework with 30+ responsive **Blade** pages and interactive **JavaScript** components; implemented secure **RESTful APIs** built in **PHP** with **CSRF** protection and role-based access.
- Engineered backend logic to handle complex form-based validation and automate workflows; optimized **MariaDB** schema with indexing and query tuning to improve reliability.
- Configured production deployment on **Linux VM** with **Nginx**, TLS encryption, and firewall setup; authored technical handover guides to support cross-border replication and team onboarding.

### Leiden University Dev | Software Developer Intern @ LIACS Lab

Feb 2024 – Jun 2024

- Rebuilt user-facing and flexible UI for a sign language research platform using **JavaScript (ES6)** and **SCSS modules**
- Collaborated with team to migrated and reconnected a legacy backend to a **Flask (Python)** stack, integrating over **400GB** of structured research data with stable routing and session persistence.
- Developed a secure academic access feature with a **password-based access control service**, including **Flask view controllers**, **session tokens**, and **bcrypt-hashed credentials**. Implemented dynamic password rotation and admin-level permission management via a lightweight internal settings panel.
- Configured continuous integration pipelines with **GitHub Actions**, containerized the application using **Docker Compose**, and deployed behind a **Gunicorn** + **Nginx** production stack.
- Took initiative to move weekly refinement meetings to follow daily standups in the **Scrum** routine, leading to more focused discussions and reduced overhead.

## PROJECTS

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- **NGO Official Website:** Developed reusable UI components using **React** + **TypeScript** and **Tailwind CSS** with atomic design principles. Integrated a secure **Java Spring Boot** backend with RESTful endpoints and implemented donation flow using external Payment API.
- **Learning Tracker Platform:** Designed a full-stack learning tracker using **Java Spring Boot** for RESTful APIs, **Spring Security** + **JWT** for authentication, and **MongoDB** via **Spring Data**. Frontend built in **React** + **Redux Toolkit**; deployed with **Docker**.
- **Full Stack Web Dev Series:** Followed University of Helsinki full-stack curriculum. Projects include **React**, **TypeScript**, **GraphQL**, **MongoDB**, CI/CD with **Docker** and **GitHub Actions**, and testing with **Jest** + **Supertest**.

## SKILLS

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- **Languages:** English(Professional), Dutch(A2), Mandarin(Native), Cantonese(Professional), German(B1)
- **Programming Languages:** Python, Java, Golang, JavaScript (ES6+), TypeScript, PHP, SQL, Bash
- **Databases:** MongoDB, PostgreSQL, MySQL, MariaDB, Redis, SQLite
- **Others:** React, Vue, Spring Boot, Flask, FastAPI, Laravel, Node.js, Express, Docker, GitHub Actions, CI/CD, RESTful API, JWT, GraphQL, Pytest, Jest, Azure DevOps, GPT API, Figma, Agile, Excel

## ACHIEVEMENT

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- **Bronze Medal Winner (Top 10%)** in Kaggle Feedback Prize(2021); developed a custom scoring model using **DeBERTa-v3-large**, **MLP**, and **Optuna**-optimized hyperparameters with **PyTorch** and **TensorFlow**.