Summer Zhang

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EDUCATION

Vrije Universiteit Amsterdam & Universiteit van Amsterdam — Amsterdam, Netherlands
MSc in Computer Science - Software Engineering and Green IT — September 2023 - August 2025

The Chinese University of Hong Kong, Shenzhen — Shenzhen, China
BSc in Engineering - Computer Engineering — September 2019 - June 2023

EXPERIENCE

Kexxu — Amsterdam, Netherlands
Thesis Intern — February 2025 - July 2025
- Designed and implemented a 3D reconstruction pipeline for large indoor mapping, handled data capture, sparse point cloud generation and rendering prototypes. Built a Raspberry Pi-based system for real time image capture, and collected a custom dataset.
- Compared computer vision methods and produced practical dataset collection and model selection guidelines for indoor mapping. Developed a novel evaluation method for 3D reconstruction quality.

Southern University of Science and Technology & Shenzhen Gas Corporation Ltd. — China
Research Assistant — June 2022 - October 2022
- Modeled gas pipeline flow using Synergi Gas, an advanced hydraulic modeling software. Built a digital twin from real operational data.
- Automated simulation data generation for pipeline monitoring. Developed a machine learning-based leak detection model based on generated data.

Social Behavior Laboratory, Shenzhen Research Institute of Big Data — Shenzhen, China
Software Engineer Intern — August 2021 - April 2022
- Contributed to a real time heatmap system using Vue.js with a Django backend to display live library population density.
- Maintained web application, optimizing data fetching with PostgreSQL and RESTful APIs.
- Collaborated closely with UX designers and backend engineers on feature design, and supported production monitoring and incident response.

PROJECTS

- **Screen Time Monitor Chrome Extension**: Developed a Chrome extension with JavaScript to monitor active screen time per website. Implemented background scripts, content scripts and a popup UI, stored aggregated data in chrome.storage. (October 2025 - November 2025)
- **Book Inventory Application**: Developed a microservices book inventory system with Flask backends, REST APIs and PostgreSQL. Containerised services with Docker and orchestrated with Kubernetes, deployed to Google Cloud and served frontend assets via Nginx. (January 2024 - February 2024)
- **Personalized Information Delivery System**: Built a Django based web app for personalized data gathering and delivery for uploader fan communities, using MySQL for backend storage. (March 2022 - April 2022)

EXTRACURRICULAR EXPERIENCE

Master Mentorship Program Vrije Universiteit Amsterdam — Amsterdam, Netherlands
Mentor — September 2024 - July 2025
- Mentored first year MSc students in Computer Science and related fields, organized technical and social events. Coordinated peer sessions and onboarding activities, improving participation and easing the transition into master study.

SKILLS SUMMARY

- **Languages**: Python, Java, C++, JavaScript/TypeScript, SQL, CSS, HTML5, VHDL, Verilog
- **Frameworks**: Vue.js, React, Django, Spring Boot, Flask, PyTorch
- **Databases**: MySQL, PostgreSQL
- **Tools**: Docker, Kubernetes, Google Cloud Platform, AWS, Git, RESTful APIs, Figma, Unit Testing