

Sherman Liu

Fullstack Developer | alenshuang@gmail.com
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Backend developer with 6 years of experience in Python web development and CI/CD. Skilled in designing scalable, high-performance systems. Experienced in developing platforms such as student rental and materials management systems. Currently studying Interactive Media Design at Algonquin College to expand frontend and design expertise, aiming for full-stack engineering roles.

Education

Diploma of Interactive Media Design 2024 – 2026
Algonquin College, Canada

Bachelor of Electronic Information Science and Technology 2012 – 2016
Nanjing Institute of Technology, China

Recent Project

Portfolio Website - <https://www.shermanliu.me>

Responsive technical blog and travel site with multi-language support, interactive map, and AI-powered summaries.

- **Tech:** Astro, React, TypeScript, Tailwind CSS, AWS
- **Accessibility:** Clear navigation and highly accessible design.
- **Blog:** AI-powered automatic translation of content.
- **Map:** City markers with optimized loading via cached images.

Skills

- **Backend:** Python, Node.js, RESTful APIs, MySQL, MongoDB, RabbitMQ, CI/CD
- **Frontend:** HTML, CSS, TypeScript, React, Tailwind CSS, Responsive design
- **DevOps:** GitHub Actions, AWS, Docker
- **Team & Communication:** Agile collaboration, Problem solving

Work Experience

[Student.com](https://www.student.com), China 2020 – 2023

Backend Developer

- Developed and maintained microservices using Python Nameko for a student rental platform, ensuring scalability and stability.
- Built and managed landlord backend system for property listings and order processing, improving operational efficiency.
- Refactored chat service with MongoDB and Redis to enable real-time communication across the platform.
- Enhanced code quality and maintainability through object-oriented service design.

- Created internal documentation to streamline onboarding and share business knowledge with the team.

[DaDa Nexus Ltd.](#), China

2018 – 2020

Backend Developer

- Led backend development of a material management system for JD Home shops, improving inventory tracking and operational efficiency.
- Developed services for face recognition, OCR, weather API integration, and sensitive word detection using Java Spring Boot. The services were designed to be degradable, flexible to switch vendors, and highly available, supporting critical processes such as rider registration and order delivery.

Union Information Technology, China

2017 – 2018

Backend Developer

- Developed the backend of a social app independently from 0 to 1 using Python Flask and MySQL, delivering login, chat, and gifting features with a focus on performance.

Dahua Technology, China

2016 – 2017

Embedded Software Developer

- Developed embedded C++ software for traffic capture cameras, supporting dozens of custom functions.