Alex Sun

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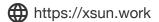
Summary

Full-stack developer, AI engineer, DevOps specialist with over 5 years of experience, delivered more than 20 projects for clients such as Tesla, Nissan, Yanfeng, CASC, CASIC. Proficient in building responsive cross-platform applications, frontend to backend, with end-to-end DevOps support. Possesses strong team collaboration and client communication skills, innovative and critical thinking.

TECHNICAL SKILLS

Frontend: TypeScript, React, Next.js, Vue, Tailwind, PWA, Capacitor.js
Backend: Next.js, FastAPI, Java, Spring Boot, Spring Cloud
Cloud: AWS, GCP, Azure, Cloudflare, Supabase, Vercel, Sanity, Wordpress
DevOps: Docker, Kubernetes, Jenkins, GitLab, Jira, Postman
3D: Three.js, Unity for web, Spline, Blender, WebGL, webGPU, wasm
AI Workflow: PyTorch, Cursor, v0, Lovable, MCP, Agents SDK, Langchain, ColossalAI
AI Skills: RAG, Fine-tuning, Prompt Engineering, Orchestration, Reinforcement Learning

Experience

Individual Developer

Melbourne, Victoria, Australia   *Oct 2024 - Present, Part Time*

Contributions

Responsible for all the works. Extracurricular part-time projects funded by friends and former clients.

Technology

TypeScript, React, Next.js, Tailwind, PWA, FastAPI, Supabase, Cloudflare, Sanity, Docker, v0, Agent SDK, MCP, Capacitor, Electron, Spline

Projects

- Talkify: A cross-platform app using OpenAI Realtime API and Google Live API for real-time AI-powered English speaking practice.
- Learnify: An university/postgraduate course learning app, leveraging AI orchestration, MCP tool-calling to enable 1v1 teaching, example quiz generation, real-time Q&A, syllabus creation etc.

Senior Software Architect

Beijing Wandeyitong Technology Co., Ltd.   *Feb 2023 - Sept 2024 (1 yr 8 mos), Full Time*

Contributions

Led a technical team of 22 people at the Nanjing R&D Center, reporting directly to the CTO. Directed the restructuring of the team into project-based units, adopted agile methodologies, and introduced AI-assisted programming to all teams, resulting in a 60% increase in development efficiency. Implemented stand-up meetings, code reviews, automated DevOps workflows and containerized deployment, achieving an 85% reduction in customer-reported issues.

Technology

TypeScript, Vue, Micro-frontend, SpringBoot, SpringCloud, Docker, Kubernetes, Jenkins, GitLab, RAG, Fine-tuning, Langchain

Projects

- Wonder Insight: a self-developed Product Lifecycle Management (PLM) platform. Earned over 10 million RMB in enterprise contracts within the first year after launch. Recognized for its stability, reliability, and

high performance.

- PLM/PDM Projects: Delivered multiple enterprise-level PLM/PDM projects based on the Wonder Insight platform to leading companies in the aerospace, aviation, automotive, and machinery industries.
- AI Manufacturing Process Generation: a system using LLM and RAG to generate manufacturing processes, involving data cleaning and annotation of over 10 years of historical process data.
- AI Parameter Simulation: Project for a research institute in CASC, utilizing parameter data from several different simulation systems. Implemented supervised fine-tuning to let LLM summarize parameter rules.

Senior Software Engineer

Beijing Wandeyitong Technology Co., Ltd.   *Feb 2022 - Feb 2023 (1 yr 1 mo), Full Time*

Contributions

I contributed to the development of a B/S architecture PLM system, where I played a key role in the development of many core functions.

Technology

TypeScript, Vue, Three.js, WebGL, Micro-frontend, SpringBoot, SpringCloud, Docker

Projects

- Wonder Microweb: A micro frontends framework that enables seamless integration of diverse frontend technologies such as React, Angular, Vue and Next.js base on Web Components. It offers advanced features including data communication, global context management, unified virtual routing, unified API, prefetching.
- Wonder Table: A Vue table component using virtualization that supports the smooth display of 100,000+ rows and 100,000+ columns without pagination, with powerful functions like filtering, sorting, editing, dragging, tree data support etc.
- Light Viewer: A web-based 3D model viewer with strong industrial functionality and exceptional rendering performance.

Software Engineer

Beijing Wandeyitong Technology Co., Ltd.   *July 2019 - Feb 2022 (2 yrs 8 mos), Full Time*

Contributions

Developed many Siemens Teamcenter projects with more than 100 complex functional modules. Developed several B/S projects.

Technology

Teamcenter, Java, SpringBoot, Vue, Vuex, Vue Router

Projects

- CASIC 3rd Institute Teamcenter Manufacturing (TCM) project
- CASIC 3rd Institute Data Package Management (DPM) project
- Nissan Wuhan Factory TCM project
- CASC 5rd Research Institute Department TCM project
- Shaanxi Xi'an Fast Automobile Transmission TCM project
- Shanghai Tesla Factory TCM project
- Emerson Electric Product Data Management (PDM) Phase II project using Teamcenter
- Lunar Exploration Program(CLEP) Project Management System project ...

Education

Monash University	*Feb 2025 - Dec 2026 (Expected)*

Master of Artificial Intelligence (Full-time)

Suzhou University of Science and Technology   *Sept 2016 - Jun 2020*

Bachelor of Computer Science (Full-time)