

# XUN SUN

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## Summary

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I'm an experienced Software Engineer with over 4 years of extensive experience. My career has spanned various roles, including Software Architect, Web Developer, DevOps Specialist, Java Developer and AI Engineer.

During my tenure at Wandeyitong, I've created a set of technical stuff during my work, some of which are as follows:

- **an Assembly Process AI Assistant based on LLMs:** Through the combination of RAG and Agent, the assistant learns the customer's BOM data and assembly process data, helps customers optimize the process procedures, and can even automatically generate new assembly processes. It greatly improves the work efficiency of assembly technicians.
- **a Micro-frontend Framework:** The framework allows web applications built on different frameworks to work seamlessly together. It has been running stably in production for more than 18 months, supporting hundreds of B/S projects, and providing functions such as data communication, global context sharing, unified virtual routing, RESTful request forwarding etc. It allows many independent projects to form as one organic platform, which greatly improves cross-projects communication and development efficiency.
- **a virtualized Web Component Library:** All the components in the library were built using the concept of virtualized rendering, which allows components to load millions of data at once without lagging. The main functions include virtual list, virtual tree, virtual form, lazy load, CRUD integration, shortcut menu, data validation, data export, data paging, draggable modal, custom template, renderer, JSON metadata etc.

More creations include: a AI-powered Markdown Translation Tool, a 3D Data Graph based on Three.js, a B/S online Word/Excel collaborative editing solution, a LaTeX visual editing tool etc. All of my portfolios can be found on my personal blog.

Apart from the artifacts above, I spearheaded the architectural design and pivotal development of a Product Lifecycle Management (PLM) platform, facilitating digital upgrade of industrial systems for many key clients in aerospace and aviation. I played a significant role in the development of numerous enterprise-level projects, delivered more than 30 customized industrial software, served for the digital design and process flow of multiple space launch vehicles. Most of the artifacts mentioned above were developed due to these business requirements.

# TECHNICAL SKILLS

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## Advanced Skills

**DevOps:** CI/CD, Docker, Kubernetes, Linux, Shell, Jenkins, GitLab, Jira, Scrum

**Frontend:** JavaScript/TypeScript, ES6, Vue3, SSR, SEO, PWA, Micro frontends

**AI:** RAG, Embedding, Agent, Prompt Engineering, Python, Conda, Langchain

## Familiar With

**Cloud:** Azure, AWS, Cloudflare, CDN, OSS, SamVer, Github

**Backend:** Java, SpringBoot, SpringCloud, Multi-tenant SaaS

**AI:** Fine-tuning, OpenAI Platform Development, LangSmith, Milvus, PyTorch

**Tools:** VS Code, IDEA, Webstorm, PyCharm, Postman, Markdown, Termius, Copilot

# Experience

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## Senior Software Architect

Nanjing Wandeyitong Intelligent Technology Co., Ltd.

*Feb 2023 - Present (11 months), Full Time*

### Responsibilities







- Architecture design of a brand-new PLM platform
- Development of many core features
- Technical solution design and project implementation
- Development team management
- Exploration and application of cutting-edge technologies

### Achievements

- **Architected and Developed 'Wonder Insight' PLM Platform:** Spearheaded the architecture design and core development of 'Wonder Insight', an innovative domestic PLM platform. Integrated flexible architecture with technologies like Wonder Microweb and Spring Cloud, and implemented a highly automated DevOps pipeline with cluster deployment support using Kubernetes. This advanced architecture and robust codebase have enhanced product competitiveness, attracting over 100 customers and 1,000+ users, recognized for its stability, reliability and high performance.
- **Creation of Wonder Agent:** As mentioned in the summary, Wonder Agent is an AI agent based on LLMs. It has two main features: RAG and Agent, which means It can learn a large amount of domain knowledge through Embedding without undergoing fine-tuning training, and it can intelligently select the appropriate external API to call in different scenario according to the API Doc, thereby obtaining external knowledge and answering.
- **Designed Technical Solutions for Aerospace Projects:** Designed and ensured successful delivery of technical solutions for various aerospace projects. Leveraging deep industry experience and comprehensive understanding of customer needs, I developed tailored solutions that significantly met client requirements.

- **Innovative Technical Development & Providing highlight features:** I was assigned to conduct technology exploration and application for the company. So I have completed a lot of technical verification and technical innovation during my daily work. Most of the non-classified artifacts are already mentioned in the summary, and you can see demos of them on my blog.

#### Key Projects

- Wonder Insight PLM platform
- Chinese Lunar Exploration Program (CLEP)  PLM project
- China Electronics Technology Group Corporation (CETC)  PLM project
- China Aerospace Science and Technology Corporation (CASC)  PLM project
- CASC 1st Research Institute  Project Management System
- CLEP  Project Management System
- CASC 5st Research Institute  Data Center Project
- China Aerospace Science and Industry Corporation Limited (CASIC) 3rd Research Institute  Project Management System

### Senior Software Engineer

Nanjing Wandeyitong Intelligent Technology Co., Ltd.

*Sept 2021 - Jan 2023 (1 year 4 months), Full Time*

#### Responsibilities



- Development of multiple projects
- Ensure project deployment and delivery
- Provide technical support to implementation personnel

#### Achievements

- **Timely Project Delivery with High-Quality Standards:** Successfully led the transition from Siemens Teamcenter to an independent development route. Adapted to new technology stacks and frameworks, ensuring the on-time completion and high-quality delivery of multiple projects through self-directed learning and technical mastery.
- **Development of Wonder Microweb, a Micro Frontends Framework:** Innovated Wonder Microweb, enabling seamless integration of diverse frontend technologies such as React, Angular, Vue, and Next.js. It provides many features like data communication, global context management, unified virtual routing, unified API scheduling, js sandbox, prefetch, css isolation etc. It's a lot like iframe but far more than iframe. This framework played a critical role in addressing the diverse needs of design and manufacturing clients, thereby becoming a key component in realizing the company's long-term vision.
- **Creation of Wonder UI, a Vue3-based Web UI Component Library:** As mentioned in the summary, Wonder UI is a virtualized solution that can adapt to various big data scenarios. Many universal functions have been abstracted into Wonder UI. This library includes versatile components like tables, forms, and modal dialogs, with notable features such as the ability to render over 1,000,000 rows and 1,000,000 columns in one table without performance lag, demonstrating significant advancements in UI development.
- **Implementation of Cloud-Native DevOps Solutions:** Enhanced client efficiency by introducing containerized deployment solutions like Docker and Kubernetes. This strategic move resolved

issues related to deployment complexities, dependency conflicts, and environment inconsistencies, significantly optimizing the deployment process and operational efficiency.

#### Key Projects

- Wonder Microweb micro frontends framework
- Wonder UI web component library
- CASC 5th Research Institute  Manufacturing Process Management (MPM) project
- CASIC 3rd Research Institute  Data Package Management (DPM) project

## Software Engineer

Nanjing Wandeyitong Information Technology Co., Ltd.

*Sept 2019 - Aug 2021 (2 year), Full Time*

#### Responsibilities

- Development of multiple Siemens Teamcenter projects

#### Key Projects

- CASIC 3rd Institute  Teamcenter Manufacturing (TCM) project
- Dongfeng Nissan  Wuhan Plant TCM project
- CASC  5rd Research Institute Department TCM project
- Shaanxi Xi'an Fast Automobile Transmission  TCM project
- Emerson Electric  Product Data Management (PDM) Phase II project using Teamcenter

## Key Strengths

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- **Collaborative Team Player** : Demonstrated success in working within diverse teams, fostering an environment of mutual respect and cooperation.
- **Effective Communicator** : Proficient in conveying complex ideas clearly and persuasively to varied audiences, enhancing team understanding and client satisfaction.
- **Strategic Problem Solver** : Skilled in identifying core issues and implementing creative, practical solutions that align with business objectives.
- **Client-Centric Approach** : Proven ability in understanding and translating client needs into actionable solutions, driving customer satisfaction and loyalty.
- **Adaptive Learner** : Quick to assimilate new information and technologies, ensuring continuous personal and professional growth.
- **Business-Oriented Innovator** : Distinguished for applying innovative thinking to align with and drive business objectives and growth.

## Education

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### Suzhou University of Science and Technology

Bachelor of Science, Computer Science

*Sept 2016 - Jun 2020*

# Awards & Certifications

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## **National Bachelor Students' Innovation and Entrepreneurship Program**

Founder & Team Leader - *Oct 2017*

Ministry of Education, China - Credential ID 201710332078

## **START YOUR BUSINESS(SYB) Certification**

Certified - *Aug 2017*

International Labour Organization - Credential ID 2017SZ00733

## **Suzhou University of Science and Technology Campus Person of the Year**

Person of the Year - *Dec 2017*

Suzhou University of Science and Technology

## **The 3rd China “Internet +” Innovation and Entrepreneurship Competition (Municipal)**

1st Prize - *Jun 2018*

National Development and Reform Commission