

# Zhimin Wang

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**Summary:** Accomplished Software Engineer with **six years** of experience across diverse technology landscapes. Proficient in the full software development lifecycle (**SDLC**) and system design, utilizing frameworks such as **Spring Boot**, **Angular**, and **Node.js** to deliver scalable, responsive, and maintainable software solutions.

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## SKILLS / CERTIFICATIONS

- **Programming Languages:** Java, JavaScript, TypeScript, HTML, CSS, C++, SQL, bash shell scripting.
- **Frameworks and Software Stacks:** Spring Boot, Node.js, Maven, Play, Hibernate, Angular, Scala, React.js, Next.js.
- **Databases and Storage Systems:** MySQL, PostgreSQL, SQL Server, Redis, MongoDB, DynamoDB, Aurora.
- **DevOps and Other Skills:** Jenkins, Git, Unix, JSON, JUnit, XML, Tomcat, JPA, AWS, Azure, GraphQL, Restful API, Kubernetes, Kafka, TDD, Design Patterns, SOAP, Linux, ElasticSearch.
- **AWS Certified Solutions Architect - Associate** (Issued Mar 2024)

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## PROFESSIONAL EXPERIENCE

### Supply Chain Full Stack Engineer - *WOOKOO LLC*

July 2024 - Present

As part of the leading TikTok Shop Partner, I spearheaded the integration and development of key systems within the supply chain department, including **ERP** system integration, **API** development, website and OA development, and **warehouse management**, driving significant improvements in operational efficiency and accuracy.

- Integrated **ERP** system, improving SKU and order management, and increasing order processing efficiency by 70%.
- Developed workflow automation through **Lark and Tiktok Shop API integration**, boosting employee productivity by 80%.
- Building a full-stack company landing page using **Java** and **React**, enhancing the company's online presence.
- Managed **7** warehouse staff, implementing procedures that reduced the LDR and improved logistics ratings from 4.2 to 5.0.

### Backend Engineer Intern - *Veryable Inc.*

May 2023 - Dec 2023

**Workforce Management System:** A microservice that assists businesses with labor forecasting and attendance management. My responsibilities included system design, database optimization, and performance improvements.

- Refactored a **Node.js**-based system by creating re-useable **TypeScript** components and **PostgreSQL triggers**.
- Optimized Hasura Events handling via **AWS SNS + SQS** integration, reducing CPU load by 50%.
- Implemented **Builder Pattern** to develop reusable unit test templates in **Jest**, decreasing redundant testing code by 20%.
- Standardized log formats with **New Relic** and **Winston**, boosting log search efficiency.
- Integrated with **SonarQube** for code refactoring, eliminating 100+ code smells, and establishing **clean code standards**.

### Senior Software Engineer - *Weaver Network Technology Co., Ltd.*

Mar 2021 - Jul 2022

**Eteams:** A mature suite for office automation. As the lead developer for the HRM module. I led the migration from a **monolithic** architecture to **microservices**, optimized system performance, and handled troubleshooting. I utilized **Java**, **Spring Boot**, **MySQL**, and cloud technologies, and mentored new team members, significantly enhancing our HR solutions.

- Implemented **Dependency Injection** using **custom annotations** to define **UI** components, reducing frontend workload.
- Refactored the organizational structure synchronization feature using **Kafka**, boosting data update efficiency by 50%.
- Resolved latency issues by implementing **MySQL table partitioning** and **Redis caching**, increasing single-page QPS by 10x.
- Developed **RESTful APIs** by exposing **SDKs** as microservices, serving as software development utilities.
- Integrated **Snowflake ID algorithm** for custom distributed ID generation, enabling multifunctional roles feature.
- Participated in the operation of **Nacos** for dynamic service discovery to manage and provide configuration information.
- Worked with the **QA** team to develop scripts generating tens of millions of tenant user data for performance testing.
- Assisted in the architectural transition from **Struts2 + Hibernate** to **SpringBoot + MyBatis**, modernizing the technology stack.

### Backend Engineer & Project Manager - *Fujian Star-net Communication Co., Ltd.*

Jul 2018 - Mar 2021

**Insurance Policy Health Check:** A sales software for a **Fortune 500** insurance company. I led a **seven-member team** through the development and management of the entire project lifecycle, enhancing the system to automatically generate policy details, premium calculations, and purchase recommendations, thereby streamlining the policy acquisition process.

- Developed a **high-concurrency** system, enhancing performance with **Redis caching** and **Java thread pool** optimizations.
- Implemented **high availability** and **failover** on on-premises servers using Linux's **Keepalived** and **Nginx** load balancer.
- Established an automated **CI/CD** pipeline using **GitLab**, **Jenkins**, and **Docker**, streamlining multi-envs for rapid deployment.
- Troubleshooting performance tuning using **JMeter** and **JProfiler**, identifying and refining suboptimal code.
- Managed projects with **agile methodologies**, winning the Outstanding Technology Team Award.

**Corporate Marketing Platform:** A digitized system for streamlining bank sales personnel operations. I actively participated in backend **designing** and development, enhancing the platform to enable sales staff to efficiently record client visits, capturing key interactions and visit durations using modern web and mobile technologies.

- Leveraged **Google Map API** to acquire clients' geographic coordinates, and identify the nearest clients for efficient sales visits.
- Implemented scheduled tasks, utilized **EasyExcel** and **multithreading** for efficient reading and batch saving of client data.
- Employed **JWT** for robust **authorization** checks, ensuring secure and restricted access based on user roles and permissions.
- Utilized **RSA encryption** for data security, safeguarding sensitive client information against unauthorized access.

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## RESEARCH EXPERIENCE

**Research Assistant** - *Southern Methodist University DSI*

Dec 2023 - May 2024

**NASA EcoPro:** Led the development of NASA EcoPro's digital twin to predict ecosystem changes, enhancing web interfaces and collaboration tools. Additionally, contributed to research projects at the DSI, including **NLP Event Extraction** and **service-oriented computing**.

- Developed full-stack applications using **Java Play** and **Scala**, integrating Dr. Zhang's **service-oriented** techniques.
- Implemented an automated deployment pipeline using **AWS ECS**, and **DockerHub**, streamlining the development workflow.
- Designed a user-centric **Single Page Application** in Angular, optimizing state management and performance.
- Utilized **TypeScript** and **RxJS** for optimal data handling and asynchronous operations.

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## PROJECTS / OPEN-SOURCE

**Personal Website**

Jun 2023 - Jul 2023

- Developed a personal website that effectively showcases my projects, enhancing my professional visibility.
- Integrated analytics tools to track and analyze visitor engagement, providing valuable insights into user interaction patterns.

**JestGen (Available on Visual Studio Marketplace)**

May 2023 - Jun 2023

- Created a VSCode extension that automates Jest test file generation, enhancing testing efficiency for hundreds of developers.
- Enabled support for multiple test templates, offering customizable and flexible test creation capabilities.

**CollaborAI**

Mar 2023 - May 2023

- Developed a maven-built live chat forum for **OpenAI** users **Vaadin** frontend and **Java 11 Spring Boot** backend.
- Implemented authentication and authorization with **Spring Security** and utilized **MongoDB** with **JPA** for data management.
- Developed an OpenAI service middleware to enable customized prompt templates for utilizing OpenAI's **LLM** models.

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## EDUCATION

**Southern Methodist University** | *MS, Computer Science; GPA: 3.9/4.0*

Aug 2022 - May 2024

**Fujian University Of Technology** | *BE, Electronic Information Engineering*

Sep 2014 - Jun 2018

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## LEADERSHIP & VOLUNTEER EXPERIENCE

**Instructor of iCode**

Jan 2023 - Mar 2023

- Volunteered as an Instructor at iCode, teaching children about STEM topics, including VEX GO robotics, drones, Python, and web development, fostering an interest in technology and innovation.

**Vice Chairman of FUT Student Union**

June 2015 - June 2016

- Coordinated cross-departmental efforts for college events, such as "Flashing Youth" and "Color Run".

**Vice-Captain in the Mount Wuyi Volunteer Activity**

June 2015 - June 2015

- Organized live performances for the children in the remote mountain villages, featured on the local evening news.