Max Zhang

Software Developer & Student

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Summary

Software developer and student building production systems that handle millions of requests daily. Active open-source contributor with published libraries and tools. Experienced in full-stack development, high-performance backends, and developer tooling. Proficient in Java, Kotlin, Rust, and modern web technologies.

Skills

Languages: Java, Kotlin, Rust, TypeScript, JavaScript, SQL

Frameworks & Libraries: Netty, Next.js, Astro, Express, Vite, Tailwind CSS, Playwright

Databases: PostgreSQL, MongoDB, SQLite, Redis

Tools & Infrastructure: Docker, Git, Linux, Cloudflare, Gradle, Maven, GitHub Actions

Design: Figma, Adobe Creative Suite

Experience

Gaming Community, Lead Developer & Administrator — June 2025 – present (8 months)

- Designed and managed backend infrastructure serving 2,000+ active members
- Built high-throughput player database handling 1M+ API requests daily (Rust, PostgreSQL, Discord integration)
- Developed custom network proxy with extensible plugin architecture for real-time packet processing (Rust)
- Maintained 99%+ uptime for production systems under continuous daily load

Assessment Solutions LLC, Web Developer & Technical Consultant — Nov 2025 – present (2 months)

- Led end-to-end website development and deployment for a research and consulting firm
- Drove technical strategy and infrastructure decisions to establish the company's digital presence

Projects

WebSocket Communication Library
Production-ready and open-source networking library for Java applications with binary protocol support.

- Java, Netty
- Thread-safe architecture with automatic reconnection and connection state management
- Published to public Maven repository; available for community use and contribution

E-Commerce Product Scraper
High-performance web scraper and REST API built for a client to extract product inventory at scale.
- Node.js, TypeScript, Playwright, Express, SQLite
- Processes 1,000+ products per minute using parallel browser automation
- Full-featured REST API with interactive search and image retrieval

Shopify Store Development
Built and configured Shopify storefronts for clients, handling setup, customization, and deployment.
- Shopify, Liquid, HTML, CSS

Game Anti-Cheat System
Real-time cheat detection engine using network packet inspection and behavioral analysis.
- Kotlin, Java
- Low-latency detection without server-side dependencies

Game Modding Framework
Open-source developer framework adopted by downstream projects for building game modifications.
- Java
- Copyleft-licensed; actively maintained for community use
- Serves as foundation for multiple community forks and derivative projects

Personal Portfolio
Personal website showcasing projects and technical work.
- Astro, Tailwind CSS, TypeScript

Player Statistics Platform
High-traffic web platform serving thousands of daily users with real-time game data.
- Vite, TypeScript, Express
- Open-source contributor: fix bugs, implement new features, and update integrations for API changes

Commercial Software Documentation
Technical writer and maintainer for documentation supporting a revenue-generating software product.
- Contributed to product that generated $50,000+ in sales

Languages

English: Native

Spanish: Conversational

Mandarin: Native comprehension

Shanghainese: Native comprehension