**Junran Tao**

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Education

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| **Stevens Institute of Technology** Hoboken, New Jersey  Master of Science in Computer Science Sep 2024 **-** May 2026  **University of Shanghai for Science and Technology** Shanghai, China  Bachelor of Engineering in New Media Technology Sep 2019 **-** Jun 2023  Skills |
| **Languages:** JavaScript, SQL, C#, C/C++, Java, Python, HTML/CSS, Handlebars  **Technologies:** Node.js, Vue.js, React, .Net, Next.js, MySQL, MongoDB, Git, Redis, Docker, OpenLayers, Cesium.js **Core Courses:** Data Structures, Algorithms, Web Programming, Distributed Systems, OS, Networking  Projects |
| **Stevens Institute of Technology** Hoboken, New Jersey  Travel Companion[(Github)](https://github.com/TOXXXX/TravelCompanion) Oct 2024 **-** Dec 2024  • **Designed secure authentication** using JWT and OAuth 2.0, enabling stateless session management and role-based access control.  • **Developed RESTful APIs** with Express.js, integrating pagination, caching (Redis), and rate-limiting to enhance performance and scalability.  • **Optimized MongoDB queries**, leveraging compound indexes and aggregation pipelines, reducing response times by 40%.  • **Implemented user profiles and social features**, including profile editing, travel route sharing, and interactive actions (comments, likes, follows).  • **Ensured robust system performance**, applying input validation, backend error handling, and secure file uploads with Multer and Sharp.  Experience |

**EarthView Image Inc. (Geographic Information Industry Leader)** Chengdu, China Full-stack Development Engineer Jul 2023 **-** Jun 2024, Full-time

• **Optimized authentication system**, implementing token-based authentication, lazy-loading, and caching, reducing authentication latency by 30%.

• **Developed a geospatial analytics dashboard** using C, Vue.js, ECharts, and OpenLayers, enabling real-time GIS data visualization for municipal agencies.

• **Designed an intelligent form validation system**, integrating asynchronous validation, debouncing, and auto-save, reducing data entry errors by 40%.

• **Built a custom WebGIS map tiling system** with Cesium.js and OpenLayers, improving map load times by 50%, a key factor in securing a multi-million-dollar government contract.

• **Enhanced UI/UX efficiency**, implementing seamless page transitions and reducing rendering latency by 60%, improving system adoption.

**Chengdu Yunshang Chuangxiang Intelligent Technology Co. LTD** Chengdu, China

Software Engineer Intern Jun 2022 **-** Aug 2022, Internship

• **Developed microservices architecture** using Spring Boot Spring Cloud, reducing system latency by 40% and enhancing API scalability.

• **Implemented high-coverage testing**, designing JUnit and Mockito test cases, achieving an 85% test coverage rate.

• **Assisted in CRM platform integration**, improving system maintainability and handling 30% more concurrent users.

• C**onducted technical research and documentation**, contributing to architecture design discussions and best practices.

**University of Shanghai for Science and Technology** Shanghai, China

DevOps Engineer Sep 2020 **-** Apr 2021, Internship

• **Developed ”Chinese Opera Search System”** using .NET SQL Server, managing 100,000+ data points efficiently.

• **Deployed the system on Ali Cloud**, optimizing performance and reliability.

• **Designed comprehensive functional and security test cases**, achieving over 95% test coverage.