

# TOH HONG XIANG

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Dedicated and versatile Full Stack Software Engineer with a proven track record of delivering impactful solutions across diverse projects. Adept at leveraging strong communication and collaboration skills to drive team success. Excels in problem-solving and thrives in fast-paced, dynamic environments.

## WORK EXPERIENCE

### Marketplace Intelligence Software Engineer, Shopee Singapore

May 2022 - December 2022

- Enhanced cross-team deployment efficiency by 20% with Grafana monitoring infrastructure enhancements, leading to faster deployment times and increased productivity.
- Reduced back-end latency by 10% with scalable solutions using Redis and Golang, enhancing system performance and user experience.
- Optimized A/B testing processes, resulting in a 20% increase in click-through rates, by creating front-end dashboard visualizations in ReactJS and Typescript.
- Spearheaded adoption of clean architecture principles and automated unit testing, fostering effective collaboration and improving code quality within the team.

### Software Developer, Industrial Electronics Pte. Ltd

December 2019 - July 2020

- Drove a 15% performance improvement in a ReactJS, MongoDB, and GraphQL e-commerce application by enhancing trading functionalities, aligning with business objectives and customer needs.
- Streamlined workflow time by 15% through collaboration with content writers throughout the full product lifecycle to gather technical requirements and prototype a user-friendly drag-and-drop template builder in ReactJS.
- Identified and resolved issues proactively during standups, achieving milestones 2 weeks ahead of schedule.
- Reduced onboarding time by 20% through active contributions to documentation efforts, refining technical documents based on user feedback and evolving project requirements.

## PROJECTS

### RemixJS Portfolio [[tohhongxiang.com](https://tohhongxiang.com)]

February 2024 - March 2024

- Achieved compliance with WAI-ARIA standards by implementing accessibility enhancements, ensuring usability for screen-readers and keyboard-only navigation.
- Reduced time-to-first-byte by 20% through lazy-loading, caching techniques and server-side generation.
- Integrated modern industry trends to design responsive front-end UIs, prioritizing user experience and accessibility across various devices.

### Ecosystem Simulation in Unity and C# - Final Year Project

July 2023 - January 2024

- Analyzed program performance using Unity's profiler and optimized performance using Unity's Job System, improving frame-rates by 50%
- Implemented modular entity behaviors using object-oriented programming and SOLID principles to ensure maintainability and extensibility of code throughout the entire codebase.

### Catch my Cadence - Flutter Android App for Runners

August 2021 - November 2021

- Delegated tasks for a fast-paced 3-month deadline, prioritizing core features and successfully completing the project 1 week ahead of schedule.
- Led a cross-functional team of 6 developers through weekly standup meetings, facilitating open communication, resolving challenges, and ensuring alignment on project goals and priorities.
- Ensured code quality through regular code reviews and adherence to best practices.

### Tuili - Tutor Matching App

March 2020 - June 2021

- Developed a full-stack tutor matching website in ReactJS, Typescript and PostgreSQL, with robust chat and with Websockets, video-calling features, file data storage with Firebase and OAuth2 workflows.
- Utilized test-driven-development with Jest to create robust, maintainable and testable code.
- Automated regression, unit testing and CI/CD workflows to ensure smooth, bug-free deployments.

### Uplevel Data Science - Analyzing Jobs in the Data Science Market

July 2019 - September 2019

- Engineered various web scrapers to scrape thousands of job listings across multiple platforms, leveraging NLP techniques and geo-spatial analysis to provide actionable insights.

TECHNICAL SKILLS

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**Languages:** HTML, CSS, JavaScript (ES6+), TypeScript, Node, Python, Go, C#, Java  
**Frameworks:** React, Next, Remix, Express, Jest  
**Databases and ORMs:** SQL (MySQL, PostgreSQL), NoSQL (MongoDB), Redis, Firebase, Prisma  
**Deployment and Platforms:** Git, Github Actions, Docker, Grafana, Gitlab, Gitea, Google Cloud Platform, Vercel  
**Miscellaneous Skills:** Natural Language Processing, Computer Vision, Artificial Intelligence, Deep Learning, Algorithms and Data Structures

EDUCATION

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<b>Nanyang Technological University</b>	<b>July 2020 - July 2024</b>
<b>Bachelor of Computer Science, Specialisation in AI</b>	<b>GPA: 4.70/5.0</b>
<ul style="list-style-type: none"><li>• Nanyang Scholarship recipient.</li><li>• Distinction in Machine Learning, Database Management.</li></ul>	