

# TOH HONG XIANG

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[github.com/tohhongxiang123](https://github.com/tohhongxiang123)  
[portfolio-mu-rosy-74.vercel.app](https://portfolio-mu-rosy-74.vercel.app)

## SKILLS

**Tech Stack:** HTML5, HTML, CSS3, CSS, SASS, SCSS, JavaScript, TypeScript, Node.js, React.js, Next.js, Remix.js, Vue, SQL, MySQL, PostgreSQL, NoSQL, MongoDB, Firebase, TailwindCSS, Redux, jQuery, Python, Go, C#, Java, NPM, Redis, Express, Rest API, GraphQL, OAuth2, Docker, Jest, Object-oriented programming, Grafana, Golang, Babel, Webpack, Vite, Google Cloud Platform, Stripe, Git, Gitlab, Gitea

**Miscellaneous Skills:** Accessibility, Software Development Lifecycle, UI Design, Web Development, Full-Stack Development, Front-End Development, Back-end Development, Continuous Integration and Deployment, Unit Testing, Content Management Systems, Test Driven Development, Version Control, Agile Software Development, Scrum, Web Application Development, Natural Language Processing, Computer Vision, Artificial Intelligence and Deep Learning, Generative AI

## WORK EXPERIENCE

### Private Tutor, Self-Employed

January 2021 - Present

- Developed personalized lesson plans tailored to individual student needs, leading to 30% grade improvements
- Enhanced student learning by engaging in real-world projects, making students more confident and passionate

### Marketplace Intelligence Engineer, Shopee Singapore

May 2022 - December 2022

- Enhanced deployment monitoring capabilities with Grafana, improving efficiency of deployments by 20%
- Focused on clean architecture principles and automated unit testing to ensure maintainability and testability
- Architected scalable and performant applications by utilizing Redis and Golang, reducing latency by 10%
- Engaged in code reviews to ensure best practices were used, reducing time spent debugging errors by 15%

### Software Developer, Industrial Electronics Pte. Ltd

December 2019 - July 2020

- Optimized features for a ReactJS, MongoDB and GraphQL e-commerce application, improving performance of trading functionalities by 15%
- Collaborated with content-writers to prototype a user-friendly drag-and-drop template builder in ReactJS, streamlining workflow time by 15%
- Identified issues and proposed solutions during standups, achieving milestones 2 weeks ahead of schedule

## PROJECTS

### RemixJS Portfolio [<https://portfolio-mu-rosy-74.vercel.app/>]

- Achieved accessibility following WAI-ARIA, improving usability for screen-readers and keyboard-only navigation
- Implemented lazy-loading, caching and Server-side Generation, decreasing time-to-first-byte by 20%

### Tuili - Tutor Matching App

- Developed a full stack tutor matching website featuring real-time chats, video-calling capabilities, file storage, RESTful APIs, and OAuth2 workflows
- Utilized test-driven-development to create robust, maintainable and extensible code
- Automated regression, unit testing and CI/CD workflows to ensure smooth, bug-free deployments

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

- Delegated tasks to pace development for a tight 2-month deadline, building out multiple features at once without jeopardizing code quality
- Demonstrated leadership by organizing weekly standup meetings within a cross-functional team of 6 developers to collate user feedback, troubleshoot issues, and manage project deliverables

### NextJS Notes and Blog [<https://personalblog-nine.vercel.app/>]

- Streamlined content-management using a practical file-based system to make organizing notes and blogs easier
- Integrated modern industry trends to design responsive UIs, ensuring a mobile-friendly experience

## EDUCATION

### Bachelor of Computer Science, Specialisation in AI, Minor in Modern Languages (GPA: 4.70/5.0)

July 2020 - July 2024

Nanyang Technological University. Distinction in Deep Learning, Computer Networking, Database Implementations

## LANGUAGES

**English** (Native proficiency) • **Mandarin** (Full professional proficiency) • **German** (Limited working proficiency)