Harry He

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Technical Skills

Frontend: React, JavaScript, TypeScript, Next.js, Tailwind CSS, Redux, Zustand, Socket.io, Cypress, Jest, HTML5, CSS3
Backend: Node.js, Express, REST APIs, JWT, OAuth2.0, Python, Java, C#, .NET
Databases: MongoDB, PostgreSQL, Redis, Prisma, MySQL
DevOps: Docker, AWS (EC2, S3, Lambda), CI/CD, GitHub Actions, Vercel, AWS Amplify

Work Experience

Digital Capital Group   Mar 2024 – Mar 2025
Front-end Developer   *Sydney*

- Collaborated with the Hong Kong tech team using JavaScript and React to optimize frontend components, reducing page load time by 35% and improving user retention on key pages by 18%.
- Designed and developed 3 custom applications based on marketing requirements, increasing customer engagement by 12% during campaign periods, particularly among mobile users.
- Localized features across 2 regions with product and design teams, leading to a 22% boost in user satisfaction based on post-release surveys.
- Engineered over 50 automated end-to-end tests using Cypress, achieving 92% test coverage; this initiative expedited the QA process, resulting in a 40% reduction in manual testing time required each week.
- Collaborated with UX designers to implement responsive design patterns, resulting in a 15% increase in mobile conversions and improved accessibility compliance across all company products.

Projects

E-commerce Full-Stack Web App | *Website* | *GitHub*   **MERN | Stripe | AWS**

- Developed a scalable e-commerce platform using React, Express/Node.js, and MongoDB with JWT authentication and Redis caching, reducing API response times by 65%.
- Integrated Stripe payment gateway for secure transactions and built an admin dashboard that improved inventory management efficiency by 40%.
- Implemented responsive UI with Tailwind CSS and deployed on AWS EC2/S3 with 2.5s average page load time.

Real-Time Messaging Application | *Website* | *GitHub*   **MERN | Socket.io | AWS**

- Built a real-time chat app using MERN stack and Socket.io with message delivery latency under 100ms.
- Implemented JWT authentication with 256-bit encryption and Zustand for state management, reducing frontend bundle size by 22%.

Forum Platform | *Website* | *GitHub*   **Next.js | Prisma | Vercel**

- Built a forum using Next.js 15 with SSR and Prisma + PostgreSQL, improving page load speed by 25%.
- Implemented GitHub and Gitee OAuth login functionality, simplifying the user registration process by 35% and reducing registration abandonment by 28%.
- Optimized Prisma queries, improving data retrieval speed by 20%, and deployed an automated CI/CD pipeline on Vercel, reducing deployment time to 3 minutes.

Education

University of Melbourne   Jul 2021 – Jul 2023
Master of Information Technology — Artificial Intelligence   *Melbourne*

- Relevant coursework: Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Cloud Computing

University of Technology Sydney   Jul 2017 – Mar 2019
Bachelor of Information Technology — Data Analysis   *Sydney*

Certifications & Additional Skills

AWS Certified Solutions Architect - Associate   2023
Amazon Web Services (AWS)