Rongwen Daren Tan

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Work Authorization: Singapore Citizen; eligible for **H-1B1 and J-1 US visas, with no petition required**

Experience

Software Engineering and Product Lead May 2025 – Aug 2025
MET EV (NUS Overseas Colleges) *Ho Chi Minh, Vietnam*
- Led a 6-person team to design and ship a full-stack e-commerce site from scratch for an EV sustainability brand
- Architected the application and database using Next.js and Supabase, deployed on Vercel
- Implemented CI/CD with GitHub Actions and TypeScript for rapid, reliable deployments
- Scoped and delivered features across sprints, translating technical constraints into roadmaps for launch deadlines

Community and Partnerships Associate Feb 2025 – Nov 2025
BLOCK71 Singapore (Singapore's largest startup incubator, NUS Enterprise, 1000+ startups) *Singapore*
- Co-led team of Student Ambassadors, spearheaded initiatives to engage student entrepreneurial communities
- Represented BLOCK71 at events, networking with founders, guest speakers, and international partners

Software Engineering Intern Jan 2025 – May 2025
MVP Studio, NUS Enterprise Technology Transfer and Innovation *Singapore*
- Developed and deployed a full-stack acoustic biodiversity research platform using React, Django, and PostgreSQL
- Designed and implemented data pipelines to power interactive visualizations and analytics for researchers
- Containerized the application with Docker to ensure reliable and reproducible deployments

Deputy Training and Operations Officer (Military Conscription) Mar 2022 – Jan 2024
1st Battalion Singapore Guards, Singapore Armed Forces *Singapore*
- Led team of 8 to optimise resources and daily operational and training requirements for 600 soldiers
- Built e-attendance platform with Django, PostgreSQL, AWS; beta tested with 100 users

Cyber AI Software Engineering Intern Feb 2022 – Mar 2022
Defence Science Technology Agency *Singapore*
- Built an NLP-based cyber threat early warning system using roBERTa and TF-IDF on web-scraped data
- Back-tested system effectiveness against historical cyberattack events to validate detection accuracy

Education

National University of Singapore (NUS) Aug 2024 – Dec 2027
Bachelor's in Computer Science (Honours) | NUS Merit Scholar (Bond-Free Scholarship)
- NUS Hackers Coreteam: Organized Hack&Roll, Singapore's largest collegiate hackathon (810 participants)

Achievements

Best Use of Convex | Cursor Hackathon Singapore Oct 2025
- 1st of 400 participants; built a real-time ASCII video streamer stress-testing Convex DB with live queries

Top 9 | NUS Hack&Roll 2025 Jan 2025
- Top 9 out of 266 teams by developing a Chrome Web Extension with Plasmo in 24 hours

1st Place | Huawei Developer Competition 2023, Asia Pacific Open Category Nov 2022 – May 2023
- 1st of 136 teams from 12 countries; developed a hybrid physical-digital play medium for children
- Built cross-platform MVP: Raspberry Pi, React Native mobile, and React web dashboard on Huawei Cloud

1st Runners Up | Huawei Cloud SPARK Hackathon Singapore 2022, Open Category Dec 2021 – Apr 2022
- 1st Runner-up of 190 teams; built a smart home elderly care system using ESP32, Raspberry Pi, React Native

1st Place | NUS Lifehack Hackathon 2021 Jul 2021
- 1st of 130 teams; built a full-stack app with Flask, AWS EC2, DynamoDB, and Rekognition

Technical Skills

Languages: Python, TypeScript, Java, SQL, JavaScript
Frameworks: Next.js, Node.js, Django, React, React Native, TailwindCSS
Libraries: Prisma ORM, Shadcn UI, BetterAuth, Recharts, Vis.gl, ThreeJS, Framer
Databases: PostgreSQL, MongoDB, DynamoDB, Supabase, Convex
Developer Tools & Platforms: Vercel, Docker, AWS, Mux