

Haolin Wu

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EDUCATION

University of Western Australia

2016 – 2021

- Bachelor of Science (Honours), Computer Science and Software Engineering | GPA: 6.38, WAM: 80.05
- Bachelor of Science, Computer Science and Data Science

Scotch College

2010 – 2014

- Dual Scholarship Recipient (in Academics and Music). Awarded colours of achievement in Academics, Music, Badminton and Chess.

EXPERIENCE

Software Engineer

2022 – Present

Telstra

- Lead the solution architecture and development of the internationalisation of Telstra, allowing live translation to 40 different languages through React, Google Translate API and AEM.
- Lead the development of Telstra Outages, a tool used by millions of customers to visualize network outages and outage areas.
- Lead the development of Telstra Global Navigation, the site-wide navigation menu and Generative AI search used by consumer and small businesses for their mobile plans and devices.
- Lead the development of [Boost.com](#), building WCAG 2 AA standard content-driven components and end to end customer journeys for Boost Internet plans, and improving SEO and web crawling site-wide.
- Lead the development of Telstra Plus on Telstra.com, Telstra's loyalty and rewards platform, building components for customers to use, sign up and interact with their reward points.
- Lead the development of the Telstra Enterprise & International migration, Telstra's portal for enterprise and global user-base to React and AEM.
- Worked closely alongside Able, Telstra's design system, to build reusable, foundational components such as buttons, menus, modals and forms, used by hundreds of engineers across the business, meeting WCAG 2 AA compliance, for both vanilla JavaScript and React.
- Re-architected [Telstra.com](#)'s backend for frontend (BFF), improving scalability and reliability to handle 1k+ TPS for concert ticket presales, reduced third party API costs by 80% and request speeds by 90% through a Redis cluster.
- Built various internal system prompts for Generative AI LLM Agents to consume, allowing better context and security for GitHub Copilot, as well as agentic agents that use [AGENTS.md](#), such as Claude Code.
- Built various internal tools to improve developer experience and agile velocity within teams across Telstra. Planning Poker, built using Tanstack and Websockets to remove bias and simplify story point estimation, and Renovators, a centralized dashboard in NextJS for pull requests, deployment environments and incident management.
- Engineering site-wide involved React, TypeScript, React Context, AEM and Java, through a variety of modern practices such as Test Driven Development (TDD) and continuous integration and deployment (CI/CD). CI/CD pipelines involved Bamboo, GitLab and PCF. Additionally, used logging and monitoring for traffic, statistics and analytics through Splunk and New Relic.

Software Engineer

2021 – 2022

FairSupply Analytics Pty Ltd.

- Architected and engineered a REST API using Django REST Framework and a Redis cluster to replace an existing NoSQL database to improve referential integrity, scalability and durability.
- Evolved a legacy AngularJS application to use TypeScript, and then containerized using Docker, with continuous integration through GitHub Actions. A Secure Development Lifecycle (SDLC) was used, along with Test Driven Development (TDD) approaches. The application was deployed on AWS using high availability, durability and fault tolerant techniques.

Casual Academic

2020 – 2021

The University of Western Australia (part-time)

- Casual Academic for *CITS3403* Agile Web Development (HTML/JS/CSS) and *CITS3004* Cybersecurity. Teaching agile methodologies, Python3 web frameworks, and continuous integration and deployment techniques.
- Teaching containerization through Docker, web vulnerabilities, white hat hacking, and cyber-attack prevention.

Full-Stack Engineer

2019 – 2020

UWA Centre for Software and Security Practice

- Project management web application system designed to approve and automate data requests from researchers, transforming and anonymising terabytes of health data.
- Project authentication pipelines were built using agile methodologies with Python/Django backend and JQuery frontend technologies, while deploying to AWS services such as EC2, RDS, and S3.

Software Engineering Intern

2018 – 2019

Corporate Governance Risk Pty Ltd.

- User interface and user experience (UI/UX) development of software for BHP, PwC, and other companies using Ruby and React.

CERTIFICATIONS AND AWARDS

Amazon Web Services

Jun. 2024 – Apr 2028

Certified Solutions Architect - Associate

- Expertise in designing highly available, resilient, scalable, and cost effective architectures on AWS infrastructure.
- Credential ID: **959bb46b80c54181b1a36bb3eb25cd12**

Certified Developer - Associate

- Technical proficiency in developing, testing, deploying and debugging AWS Cloud-based applications.
- Credential ID: **39f65590da65435a85317be84113c3ba**

Certified Cloud Practitioner

- Foundational, high level understanding of AWS Cloud, services and terminology.
- Credential ID: **5f314fd11a4f4d8681b501195c0a76cb**

Certified AI Practitioner

- Foundational understanding of AI and machine learning concepts, AWS AI/ML services, and responsible AI practices on AWS.
- Credential ID: **fade670fb3b04dd3a2ab84467ac76338**

Telstra

Feb. 2022 – Present

Product Engineering Group Executive Award (2025 Q1)

- Awarded for leading the engineering and development of the internationalisation of [Telstra.com](https://www.telstra.com), now translating to over 40 languages and used by 100K+ customers and staff.

Cybersecurity Engineering Champion

- Certified Telstra Security Champion. Managing, reviewing and ensuring that code meets modern security requirements and addresses potential exploits and vulnerabilities.

Product Engineering Champion of the Month

- Recognised as the Product Engineering Chapter Champion, an award given for significant contributions to the business, for developing the Global Navigation for the customer facing website.

Innovation Hackathon Semi-Finalist

- Developed a prototype concept for *Telstra Pay*, a product leveraging existing Telstra ecosystem resources to access the Buy now, Pay later market.

The University of Western Australia

2020 – 2022

Teaching Commendation

- Awarded for outstanding teaching for Agile Web Development (CITS3403) and Cybersecurity (CITS3004).

Unearthed Amazon Web Services Hackathon

2018

- Won the Young Innovators Award for prototyping an application that allows for simulations of mining resources and their effect on equipment and its degradation, improving equipment efficiency and reducing costs.

VOLUNTEERING

Telstra Developer Mentor

2023 – Present

- Organised weekly catch-ups to check in on new graduates and their progress throughout their graduate program.
- Supported the training in Python and AWS for mentees across Telstra.
- Developed custom individually tailored plans to help accelerate career progression and growth for new graduates and mentees.

UWA Information Security Society

2020 – 2021

Founder and Committee Member

- Planned and managed informational content for members to learn and improve their knowledge around the cybersecurity space.
- Organised events to promote club growth and socialising amongst members and club partners.

PROJECTS AND HIGHLIGHTS

- <https://www.haolin.dev> | Portfolio to display work across my career | NextJS/React/TypeScript/Tailwind
 - <https://www.archeeapp.com> | Websocket implementation of Planning Poker for Agile sprint planning | React/Websockets/NextJS/SEO
 - Renovators | An internal dashboard consuming Jira, Bamboo, GitLab and PagerDuty APIs to improve developer experience within Telstra's AEM Renovators team, fully built with Claude Code, NextJS and Shadcn.
 - *Discord Utilities* | Automated CI/CD pipeline and bot development system for managing users across the Discord application | TypeScript/DiscordJS/CI-CD/GitHub Actions
 - <https://www.snake.haolin.dev> | HTML, JavaScript and CSS implementation of the classic Snake game
- More projects and highlights can be seen on my portfolio at <https://www.haolin.dev>
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Hobbies: Piano | Badminton | Tennis | Fishing | Formula 1 | Gardening | Baking