

Weimeng (Wilson) Ding

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EDUCATION

Master of Information Technology (IT) – **Monash University** 03/2022 – 06/2023
Bachelor of Information Technology (IT) – **Monash University** 03/2019 – 11/2021

TECHNICAL SKILLS

- *Languages & Frameworks*: LLM (llama.cpp), Prompt Engineering, Workflow Automation, Async Pipelines, .NET, ASP.NET Core, TypeScript, React, Next.js, Node.js, React Native (Expo), Zustand/Redux, Python, Express, GraphQL, REST APIs
- *Tools*: AWS (EC2), SQL Server / PostgreSQL, SQLite, Firebase, Redis, Docker, Kubernetes, GitHub Actions, Bitbucket Pipelines

PROFESSIONAL EXPERIENCE

Software Engineer – Sensor Dynamics 09/2024 – 12/2025

Full-Stack Development:

- Designed and maintained enterprise internal platform using C# (.NET Core) for backend services and SQL Server for data persistence, implementing REST and GraphQL APIs that supported 50+ internal users and processed 10000+ daily transactions.
- Developed a cross-platform admin interface using React Web and TypeScript, enabling driver management and job tracking across 200+ active drivers, reducing manual data entry by 15 hours per week.

System Architecture & Reliability:

- Engineered automated workflow solutions that eliminated 4 manual operational steps, reducing human error by 30% and improving overall system reliability to 99.9% uptime.
- Optimized backend API performance and data handling, reducing average response time by 25% for critical user-facing features.
- Integrated with existing authentication and permission frameworks (JWT, session management), supporting 5 distinct user roles and ensuring secure access for 50+ concurrent users.

DevOps & Quality Assurance:

- Supported and maintained CI/CD pipelines, reducing deployment time by 20%, enabling 2-3 weekly releases with zero downtime.
- Actively participated in debugging and resolving 15+ production incidents, reducing mean time to resolution (MTTR) by 35% and ensuring 24/7 system stability for operations teams.

Full Stack Developer Intern – SkillShift

06/2024 – 09/2024

- Engineered a scalable full-stack web application using Next.js (SSR) and Firebase, strengthening authentication security, improving real-time interaction performance, and establishing maintainable data architecture designed for long-term growth.
- Enhanced page load speed and perceived responsiveness through code-splitting, lazy loading, and optimized rendering strategies, minimizing unnecessary client-side resource consumption.
- Enabled real-time user interaction feedback via Firebase SDK synchronization, ensuring instant UI updates and improving system responsiveness under concurrent usage.
- Designed scalable and structured data models across Firebase Realtime Database and Firestore, supporting user profiles, preferences, and dynamic application content, optimized read/write efficiency and reduced redundant queries.

SELECTED PROJECTS

XiaoxingAI_Chat - AI Product Dashboard & Automation Platform - Solo Developer

Present

- Built a production-style AI platform using React, TypeScript, FastAPI, PostgreSQL, and Redis, supporting multi-user automation workflows and internal tooling for AI-driven operations.
- Developed a modular React dashboard for worker monitoring, live logs, prompt management, debugging, and user administration, with hot-reload configuration to improve operational efficiency.
- Implemented real-time bot interaction flows with conversation state, per-bot memory, and tool-routing logic, improving response consistency and enabling more reliable multi-session usage.
- Improved system reliability through structured logging, cache-backed deduplication, JWT-based access control, and concurrency-safe chat handling across multiple active bots.

IpokerPal (Poker Chip Tracking System) - Solo Developer

04/2025 - 11/2025

- Designed and developed a cross-platform mobile and web application using React Native Expo, Node.js and firebase to manage real-time poker sessions and financial settlements for 10+ concurrent users.
- Implemented predictable state management using Zustand to support high-frequency real-time update with minimal re-renders and ensuring smooth real-time gameplay.
- Developed consistent financial settlement logic ensuring accurate balance calculations with <200ms latency across session participants.
- Wrote unit and integration tests for critical financial calculations and state transitions, ensuring correctness and preventing regressions during feature updates.