CONTACT

Work Rights: Open Work Rights in NZ

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TECH SKILLS

Languages & Backend

C#, .NET Web API, EF Core, REST APIs, SQL, JWT

AI Engineering

LLM Integration, **AI Agents**, **Tool Calling**, **RAG**, Azure OpenAI, Gemini API

Data

PostgreSQL, MySQL, SQLite

Frontend

React, TypeScript, Next.js, Tailwind CSS

Cloud & DevOps

Azure, **Docker**, GitHub Actions (**CI/CD**, **automated testing**)

Tools & AI-assisted Development

Git, GitHub, Swagger, Postman, Linux, Claude Code, Cursor, GitHub Copilot

Methodologies

Jira, Agile, Scrum

Ke Zhang

Junior Software Developer

PERSONAL STATEMENT

Software developer focused on backend development and AI agent development, with the ability to turn user and business needs into practical software solutions. Experienced in building backend and AI-enabled applications using C#, .NET, APIs, databases, cloud services, and LLMs, including designing and implementing LLM-driven agent workflows. Proactive in exploring new AI technologies and applying them to solve practical problems. Able to work independently, take ownership of tasks, and collaborate effectively with stakeholders and team members. Strong written and verbal communication skills with experience working across technical and business areas.

RELEVANT EXPERIENCE

Wingman Ltd Jun 2025 – Nov 2025
Full-stack Developer Intern Hamilton

Wingman Ltd develops digital tools for genetics-based decision-making in dairy.

- Maintained the genetics data platform, using automated scripts to collect and synchronise 20,000+ bull records from external industry data sources into the platform database, reducing repetitive manual data processing.
- Developed and integrated new features including favourites and genetic parameter comparison, implementing supporting APIs and access controls to allow users to save, filter, and compare bull data.
- Improved the sales consultation workflow by enabling users to save favourite bulls and email selected genetic information for consultation, reducing the need to repeat searches and manually compile results.
- Used Git for version control and deployed application updates through PythonAnywhere.
- Worked in an Agile environment, collaborating with stakeholders and team members through weekly meetings to clarify requirements, provide progress updates, and coordinate feature delivery.

Achievement: Successfully delivered Phase 1 MVP with 6 independently developed features, improving data filtering and user workflows, resolving critical data collection and synchronisation issues.Adapted to an existing codebase, resolved legacy issues, and took on new development tasks throughout the internship.

PROJECT LINK

- KONER *https://green-meadow-07a664610.3.azurestaticapps.net/*
- Footprint-v2 *https://footprint-v2-client.onrender.com/*

EDUCATION

- Master of Applied Computing – Lincoln University, New Zealand | Jul 2024 – Nov 2025

- Bachelor of Visual Communication Design – Chongqing Technology and Business University, China | Sep 2014 – Jun 2018

CERTIFICATES

- Microsoft Certified: Azure Fundamentals (AZ-900)
- Azure AI Fundamentals (AI-900)
- AWS Certified Cloud Practitioner (CLF-C02)

REFEREE

- Mark Benns — Co-founder, Wingman Ltd | Available upon request

Microsoft Student Accelerator(MSA)2026 Feb 2026 – Present
Full-stack Developer Intern Auckland

MSA is a Microsoft-backed programme connecting NZ students with industry.

- Planned, designed, and developed Footprint v2, an online travel community platform, translating project requirements into feature specifications, interaction flows, and technical solutions.
- Designed and developed the full-stack application using ASP.NET Core Web API, EF Core, SQLite, React, TypeScript, and Tailwind CSS, implementing RESTful APIs, JWT authentication, RBAC, post sharing, city collections, and gamification features including points, leaderboards, and achievement badges.
- Used Git/GitHub and Docker for development and deployment, containerising the backend and deploying the frontend and backend separately through Render.

Achievement: Applied an AI-assisted development workflow with Claude Code, translating defined requirements into working features and reviewing, testing, debugging, and iterating on generated code before integration.

SELECTED PROJECT

KONER Agent Jul 2026 – Present

KONER is an AI-powered time management agent that uses **LLM-driven tool calling** to analyse user time records, maintain conversational context, and propose schedule changes with user approval.

- Developed the ASP.NET Core Web API and agent service, including the AI analysis endpoint that receives user queries from the React frontend and orchestrates LLM-driven analysis.
- Integrated the Google Gemini API through a dedicated service and implemented the **agent loop**, enabling the LLM to select appropriate tools, execute them, process returned results, and generate context-aware responses.
- Designed **reusable agent tools** and connected them to **PostgreSQL** through **EF Core**, allowing the agent to retrieve and analyse user-specific time records and incorporate tool results into its responses.
- Implemented **persistent user memory** and **conversation history**, enabling the agent to retain relevant user context and maintain continuity across conversations.
- Built an AI scheduling workflow that generates validated schedule proposals and requires **user approval** before applying changes to the user's actual schedule.
- Containerised the application with Docker and set up a GitHub Actions CI/CD workflow to automatically build and deploy the application to Azure after code changes were pushed to GitHub.