

Andrew Wilks

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Software developer focused on modern web. React/Next.js and TypeScript, GraphQL and SQL/ORMs, shipping through CI/CD on Linux/Docker and cloud (Azure; AWS exposure). Professionally delivered on Power Platform/Azure; personally build in a code-first stack with performance, accessibility, and developer experience front and centre. Fast learner with strong fundamentals; comfortable ramping on **Angular** quickly.

1. Skills

Front-end: React, Next.js, TypeScript, component architectures, state management (TanStack Query/Router, Context), accessibility (WCAG), performance optimisation & Core Web Vitals, responsive design, Figma-to-build workflows, CSS architecture (design tokens/CSS variables).

Also: Angular (learning path; strong TS foundation and transferable patterns).

Back-end & APIs: Node/Deno, REST and GraphQL APIs, SQL/ORMs (Drizzle/Prisma), authentication/authorisation, caching, Headless CMS.

Data: PostgreSQL / MySQL / SQLite, schema design & migrations.

DevOps & Cloud: Azure (professional), AWS (academic), Linux, Docker, GitHub Actions (personal CI/CD), Coolify, Cockpit, env/config management, basic monitoring/telemetry.

Tooling & Collaboration: GitHub, Azure DevOps, Trello/Monday.com; new to Atlassian (Jira/Confluence/Bitbucket) and ramp quickly. Headless CMS: Payload CMS; WordPress familiarity.

Testing & Quality: Unit and integration testing (Vitest/Jest), emerging E2E, release hygiene, issue triage.

Also used: Python, C/C++, C#, Java; Figma/Adobe for rapid UI iteration.

2. Education

BACHELOR OF INFORMATION TECHNOLOGY (COMPUTER SCIENCE) WITH DISTINCTION

Queensland University of Technology (QUT)

March 2020 – August 2024

- GPA: 6.0
- Dean's List: Semester 1 & 2 (2020), Semester 1 (2021)
- Major: Computer Science | Minor: Mobile Applications
- Key Courses: Software Development, Web Computing, AI/ML, Cloud Computing, Databases, IoT

ADVANCED DIPLOMA: PROFESSIONAL GAME DEVELOPMENT – ART
Academy of Interactive Entertainment (AIE) | 2011 – 2012

VOCATIONAL GRADUATE DIPLOMA OF MANAGEMENT
Academy of Interactive Entertainment (AIE) | 2013 – 2014

CERTIFICATE III IN INTERACTIVE DIGITAL MEDIA
Mornington Secondary College | 2009 – 2010

CERTIFICATE III IN INFORMATION TECHNOLOGY
Dromana Secondary College | 2008 – 2009

3. Professional Experience

SOFTWARE DEVELOPER - BEACHHEAD.TECH

Jul 2025 – Present | Brisbane, QLD

A Brisbane-based consultancy that builds Microsoft Power Platform solutions and provides home automation & access control, internet/network provisioning, and monitoring for client properties (including SDA).

- **Access Management web app (React + TypeScript SPA):** designed and built the app property managers used to manage permissions, issue/revoke access codes, provision devices, and review audit trails and live door events.
- **Power Platform + Dataverse + Power Pages:** extended the portal with React/TypeScript SPA extensions and PCF components; implemented role-aware UI and typed API contracts.
- **ZK Tech integration:** engineered an API-driven integration with ZKTeco hardware to sync devices with Dataverse for secure, auditable access control.

SOFTWARE DEVELOPER - NDISP

Aug 2023 – Jul 2025 | Brisbane, QLD

An Australian disability housing and property-management company providing Specialist Disability Accommodation (SDA) and related services for NDIS participants across Queensland.

- **Sole developer, end-to-end delivery** of an SDA property platform (requirements → Figma UX/UI → build → deploy on Power Pages).
- Pre-eligibility workflow before search/apply; accessible public pages aligned to Core Web Vitals.
- Built supporting modules (Owner Portal & templated reports, Tenant CRM & Assets) to streamline operations across teams.
- **Case Study series: NDISP Property Platform:**
<https://www.andrewwilks.au/posts/ndisp-case-study-series>

Earlier:

Assistant Deli Manager (Hawthorne Garage);

Lead 3D Artist (Atomizer Games).

4. Certificate

LINKEDIN LEARNING:

Learning C# | Scrum: The Basics | Corporate Financial Statement Analysis

5. Key Projects

NDISP PROPERTY PLATFORM (SDA)

NDISP | Sole Developer | Completed

Power Pages portal extended with a React/TypeScript SPA for pre-eligibility, search/apply, and accessible public pages aligned to Core Web Vitals. Case study series:

<https://www.andrewwilks.au/posts/ndisp-case-study-series>.

ACCESS MANAGEMENT WEB APP

Beachhead.Tech | Software Developer | Phase 0

React/TypeScript SPA used by property managers to issue/revoke access codes, provision devices, and review audit trails/live door events; API-driven integration with ZKTeco hardware and Dataverse.

BEACHHEAD PLATFORM (SAAS)

Beachhead.Tech | Software Developer | Suspended

Power Platform + Dataverse core with a Power Pages portal extended using React/TypeScript SPA modules and PCF components; typed API contracts and role-aware UI.

OWNER PORTAL & REPORTS

NDISP | Project Lead | Completed

Power Pages portal with templated owner statements and automated document workflows, reducing manual reporting steps.

TENANT CRM & ASSETS APP

NDISP | Project Lead | Completed

Model-driven apps streamlining tenancy management and asset tracking across teams.

MAKING WAY ELECTRICS – WEBSITE

Wilks Web Solutions | Project Lead | Completed

Next.js site; design and build; self-hosted on Linux/Docker with CI/CD via Coolify + GitHub. Link: <https://mwel.com.au>

PERSONAL PORTFOLIO – NEXT.JS + PAYLOAD CMS

Wilks Web Solutions | Personal Project | Active

Portfolio and writing hub with a custom CSS-variables design system for scalable colour, spacing, and typography.

Link: <https://www.andrewwilks.au>

SUGARCANE INDUSTRY APPLICATION'S

Queensland University of Technology Capstone Project | Lead UI / UX Designer and Developer | Completed

Expo (React and TypeScript) mobile and web applications for consignment management; led user interface and user experience and implementation.

6. TOOLS & PRACTICES

Git | GitHub Actions | GitHub Issues and Projects | Continuous Integration and Continuous Delivery | Testing (Vitest and Jest) | Linting and Prettier | Feature flags | Secrets management | Observability and telemetry | Object-Oriented Programming | SOLID principles (single responsibility, open-closed, Liskov substitution, interface segregation, dependency inversion) | Design patterns | Domain-Driven Design | Test-Driven Development

7. Personal Projects

ETF AND STOCK GOAL-DRIVEN ANALYSIS TOOL

Personal Project | Developer | In Design

Next.js and TypeScript tool with Drizzle ORM and Dexie offline-first storage to plan goals, model dividend reinvestment, and evaluate portfolios; integrates a cost-of-living data layer.

COST-OF-LIVING ENGINE (AUSTRALIAN BUREAU OF STATISTICS)

Personal Project | Developer | In Design

TypeScript data pipeline and tables that ingest Australian Bureau of Statistics series for inflation and macroeconomic context, used by the analysis tool.

RESUME GENERATOR AND OWNER REPORT TEMPLATES

Personal Project | Developer | In progress

Node and TypeScript templates and scripts for resume and report generation (charts with ECharts) with GitHub Actions workflows for automated builds.

8. Personal Interests

HOME NETWORKING AND HOME LAB

Personal Interest | Ongoing

Ubiquiti UniFi design (segmented Virtual Local Area Networks and ten-gigabit backbone), firewalling, and monitoring.

SELF-HOSTING AND AUTOMATION

Personal Interest | Ongoing

Home Assistant, Docker containers, reverse proxying, observability, and a three-two-one backup strategy.

LAWN AND IRRIGATION PROJECT

Personal Interest | Ongoing

Warm-season couch renovation, multi-zone irrigation design and tuning, soil health, and top-dressing experiments.

FITNESS AND OUTDOORS

Personal Interest | Restarting

Rowing machine training, cycling, and hiking.

PERSONAL FINANCE AND INVESTING

Personal Interest | Ongoing

Long-term, evidence-based portfolio building and dividend strategy.

thank you
Let's connect and build
something great together!