Software Developer

Andrew Wilks

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Software developer with hands-on experience shipping front-end and internal tools in **TypeScript/React**, integrating **REST APIs** and working with **SQL**. Modernised a property-management app suite and maintain a **home lab** (Linux/Windows, containers, simple CI/CD) that keeps troubleshooting and automation sharp. Clear, calm communicator who ships in small, reliable increments; learning **C#/.NET** and expanding deeper into coding-first product work.

1. Skills

Front-End: React, Next.js, TanStack Router/Query, forms, SSR / ISR, performance, accessibility.

Back-End: Node.js & Deno, REST / GraphQL, authentication/authorisation, file pipelines, background jobs

Data: Drizzle ORM, PostgreSQL / MySQL / SQLite, schema design & migrations, observability

Platform: AWS / Azure, Cloudflare, Docker, GitHub Actions (workflows), GitHub Issues / Projects, CI / CD, testing (unit/integration)

Power Platform: Dataverse, Power Pages, Power Automate, Model-Driven / Canvas Apps, custom connectors, ALM/CoE

Also used: Python, C/C++, C#, Java, SQL; Figma / Adobe for quick UI iterations

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).

- Led **Property Ops** platform (Dataverse + Power Apps/Pages + React/TS).
- Built **Access Management**: ZKTeco integration; auto issue/revoke; live door logs.
- Shipped **Property Monitor**: UniFi uptime/alerts; reduced onsite callouts.
- Owned CI/CD and micro-APIs (Deno/Node, Drizzle); GitHub Actions and releases.

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.

- Built **Power Pages** for SDA listings and applications.
- Automated **Owner Reports**: ~1s vs ~1h; rolled out to **150+ properties / 60 owners**.
- Implemented **claims/variance** reporting; improved reconciliation and audits.
- Introduced issue workflows (templates, labels, SLA boards) to clarify priorities.

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

BEACHHEAD PLATFORM (SAAS)
Beachhead.Tech | Project Lead | Completed

Power Platform + Dataverse core with a Power Pages portal extended by React/TypeScript SPAs and Power Apps Component Framework components. Typed API contracts, role-aware UI, and CI/CD via GitHub Actions.

ZK TECH ACCESS CONTROL INTEGRATION & APP
Beachhead.Tech | Project Lead | Completed

API-driven integration linking ZKTeco controllers to Dataverse for permissions, credential lifecycle, and auditing; improved security and compliance.

NDISP WEBSITE
NDISP | Project Lead | Completed

Power Pages website for SDA property search and participant applications; improved accessibility and enabled direct intake workflows.

OWNER PORTAL & REPORTS
NDISP | Project Lead | Completed

Power Pages portal with templated owner statements and automated document workflows; cut report generation from ~1 hr to ~0.1 s.

TENANT CUSTOMER RELATIONSHIP MANAGEMENT & ASSETS APP
NDISP | Project Lead | Completed

Model-driven and canvas applications that streamlined tenancy and asset operations with improved user experience and efficiency.

MAKING WAY ELECTRICS WEBSITE
Wilks Web Solutions | Project Lead | Completed

Next.js and TypeScript brochure site with customer funnels and analytics.

SUGARCANE INDUSTRY MOBILE AND WEB 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!