

Weizhou (Benjamin) Xue

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New Zealand Permanent Resident | Full driver licence | Available for site work and travel

Summary

Hi, I have New Zealand experience in production software, technical leadership, and on-site data centre operations. Hands-on project experience with Ignition Perspective, CODESYS, Structured Text, SCADA alarms, interlocks, sequence control, and fault testing.

Core Skills

Automation & Control: Ignition Perspective, CODESYS, Structured Text, SCADA/HMI, Tags, alarms, interlocks, sequence logic

Programming & Integration: Python/Jython, JavaScript, TypeScript, Node.js, REST APIs

Testing & Troubleshooting: Fault simulation, root-cause investigation, Cypress, technical documentation

On-Site Operations: Equipment staging, basic diagnostics, procedural work, issue escalation

Experience

On-Call Data Centre Technician - RouterStack, Auckland

Mar 2026 - Present

- Respond to time-sensitive requests for server and network equipment staging, replacement, and basic diagnostics in Auckland data centres.
- Follow site procedures, maintain accurate work records, and provide clear progress updates and escalation details.

Full-Stack Engineer - Vision for Humanity Charitable Trust, Auckland

Dec 2025 - Jul 2026

- Built and maintained production React/TypeScript applications across content, community, and e-commerce products using Strapi, Shopify, Firebase, Redux Toolkit, and Material UI.
- Diagnosed and resolved production issues involving profile routing, cross-domain navigation, mobile links, media uploads, comments, and regressions introduced during a Strapi v5 migration.
- Implemented hybrid SSR and prerendering with Vike, improving page-load performance by approximately 40% and increasing Lighthouse SEO score from 72 to 91.
- Integrated user-data workflows across Shopify and Strapi, refactored legacy components, and documented maintenance guidance for contract handover.

Tech Lead - University of Auckland WDCC, Auckland

Jan 2025 - Dec 2025

- Led a 7-developer team in building and releasing a MERN-stack job board used by more than 200 university club members.
- Designed REST APIs with JWT authentication, role-based access control, and flexible MongoDB structures for configurable application forms.
- Ran weekly sprints, code reviews, troubleshooting, and technical coordination while contributing across React, Node.js, Express, MongoDB, and Cypress testing.

Selected Automation Projects

Distribution Feeder SCADA Simulation - Personal Project ([LINK](#))

Aug 2026

Ignition 8.3 | Perspective | SCADA Tags | Expression Bindings | Python/Jython

- Built an Ignition Perspective simulation of an 11 kV feeder with live telemetry, breaker status, operator controls, and structured Tags.
- Implemented remote and communications interlocks, close permissives, overload trip/reset, telemetry freeze, and command-feedback timeout logic.
- Configured and tested alarms for overload, protection trips, communications loss, and command failure, including acknowledgement and recovery.

Smart Conveyor Sorting Simulation - Personal Project ([LINK](#))

Aug 2026

CODESYS | Structured Text | PLC Sequence Logic | Factory I/O Simulation

- Programmed CODESYS Structured Text sequence logic coordinating sensors, conveyors, a turntable, and transfer operations in Factory I/O.
- Diagnosed signal-mapping, retained-state, and timing faults, then verified the corrected end-to-end operating cycle.

Education

Bachelor of Science, Computer Science - University of Auckland, Auckland

2023 - 2026

Coursework completed; degree conferral expected in 2026.

Certification

Microsoft Certified: Azure Fundamentals - May 2024 ([LINK](#))