

# Zefan Wu

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## Profile

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Software engineer building backend and device-side systems for the energy technology sector. I improve reliability across Linux devices, messaging pipelines, and Python services by tracing production faults through to repeatable fixes, clearer tooling, and lower operational friction.

## Professional Experience

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### Reposit Power Pty Ltd

*Fyshwick, Australia*

Software Developer

*Oct 2023 - Present*

Build backend and device-side systems for Linux-based energy controllers, improving telemetry, reconnect behaviour, and field support.

- Traced production faults across device, messaging, backend, and infrastructure layers using logs, ping tests, interface checks, and Linux diagnostics, reducing time spent guessing at root cause.
- Supported ZeroMQ and Kafka message flows for telemetry and reconnect events, improving the reliability of schema-driven device reporting and downstream processing.
- Built Docker, Jenkins, and Debian packaging workflows for ARM builds and driver validation, making release preparation and engineering verification more repeatable.
- Turned recurring operational issues into handover notes, dependency guides, and health checks that sped up recovery and reduced repeat investigation for the team.

### 4DATA IT

*Queanbeyan, Australia*

Backend Developer

*Jul 2023 - Oct 2023*

Built backend integrations and release workflows for the ACTSmart Business Training platform.

- Translated stakeholder requests and integration requirements into deliverable modules with clearer scope and less rework.
- Documented configuration, architecture, and end-to-end test paths so troubleshooting and release work could proceed with less guesswork.
- Standardized setup, recovery, and debugging with Docker and Docker Compose, making environment validation more repeatable for the team.

### QuantEcon

*Canberra, Australia*

Research Assistant

*Apr 2023 - Aug 2023*

Built Python data and reporting workflows for university research projects, improving data quality and reporting usability.

- Improved data integrity and reduced manual cleanup by building reliable preparation workflows for research use.
- Maintained and extended databases for economic and financial time-series analysis, reducing manual reconciliation effort in reporting workflows.
- Translated technical findings into decision-ready summaries that improved communication between technical work and academic users.

### Jemma

*Canberra, Australia*

Full Stack Developer & Scrum Master

*Jul 2022 - May 2023*

Supported delivery, coordination, and client communication in a client-facing software environment.

- Coordinated competing work items across developers, stakeholders, and clients, helping the team prioritise requests and keep delivery aligned to deadlines.
- Planned and maintained project documentation throughout delivery, reducing ambiguity during handoffs and improving client communication.
- Managed Jira-based workflows to surface blockers and dependencies early, improving control across multiple technical tasks.

**ByteDance**

Product Manager, Commercial Products

*Beijing**Oct 2021 - Jan 2022*

Improved internal product workflows and data visibility for commercial systems used by operations teams.

- Improved CRM data access and visualization workflows, helping operations teams answer performance questions faster with less manual lookup.
- Worked directly with international stakeholders to convert business needs into technical specs and prototypes, reducing implementation rework.
- Delivered the Grant Cost field integration in CRM performance pages, removing cross-platform lookups and reducing manual retrieval effort by 20%.

**ByteDance**

Product Operations, Commercial Products

*Beijing**Jul 2021 - Oct 2021*

Supported internal tool adoption through Q&A, testing, documentation, and user enablement for commercial product teams.

- Managed online Q&A channels and built FAQ content for CRM and performance tools, improving support consistency and surfacing recurring issues for product teams.
- Conducted user acceptance testing and monitored data quality, helping maintain service standards and catch issues before broader roll-out.
- Created reference documentation, mini-courses, and recurring training sessions, reducing repeat support questions and helping users adopt new features more smoothly.

**TitanOS**

Operation and Maintenance Engineer

*WuHan**Nov 2019 - Jan 2020*

Supported containerised service environments for runtime operations and platform maintenance.

- Deployed and maintained Docker-based services, reducing environment drift and lowering manual intervention during runtime recovery.
- Supported Kubernetes operations to reduce manual container management overhead and improve platform readiness.

## Education

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**Australian National University**

Master of Computing

*Canberra, Australia**2023*

- Specialisation: Computer Systems

**Australian National University**

Bachelor of Information Technology

*Canberra, Australia**2021*

- GPA: 6.27 / 7.0

References available on request