

CODY TUCKER

TECHNICAL SYSTEMS GENERALIST | SOFTWARE · DATA · AI · SUPPORT

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PROFILE

AI-native technical systems generalist and end-to-end problem solver with broad hands-on capability across software development, backend/data systems, applied AI, automation, IT fundamentals, and technical support. Independently ships complete products, learns unfamiliar technologies quickly, and is strongest when given an ambiguous technical problem to investigate, architect, prototype, debug, test, and carry through to a usable result.

TECHNICAL CAPABILITIES

Software & Systems: C#, Python, JavaScript, OOP, modular architecture, state/persistence, event-driven workflows, debugging, testing, system integration

Backend & Data: REST APIs, HTTP/JSON, FastAPI, SQL/SQLite, Pandas, ETL/ELT, relational schemas, validation, idempotent persistence, metrics

Applied AI & Automation: LLM tool/function calling, stateful orchestration, workflow execution, execution guards, structured specifications, AI-assisted implementation/review

Tools & IT: Git/GitHub, Docker, pytest, GitHub Actions, Unity, Firebase, Windows/Linux fundamentals, networking/server concepts, logs and configuration

Working Style: rapid technical learning, root-cause investigation, requirements decomposition, independent ownership, documentation, user communication, escalation judgment

SELECTED ENGINEERING WORK

Project Miasma: Prelude | C# · Unity · Systems Architecture · Game AI | 2026-Present

- Independently designed, built, debugged, integrated, and released a complete Steam application, owning architecture, gameplay systems, persistence, UI, progression, AI behavior, content integration, and release preparation.
- Built and refactored interconnected stateful systems with explicit ownership, failure handling, diagnostic visibility, and repeatable validation rather than isolated prototypes.

AI-Integrated Interactive Application | JavaScript · Firebase · LLM Tool Calling | 2026

- Built a stateful application where LLM tool calls execute real application actions through synchronized state and configurable workflows; implemented bounded tool loops, execution safeguards, and validation.

Backend & Data Systems | Python · FastAPI · Pandas · SQL/SQLite · Docker · pytest | 2025-Present

- Built end-to-end API and ETL systems spanning external data acquisition, validation, transformation, relational persistence, idempotent writes, health/telemetry metrics, structured logging, automated tests, CI-ready organization, and repeatable execution.

PROFESSIONAL EXPERIENCE

Youth Support Worker | Capital Family Services | 2024-2026

- Worked independently in a high-responsibility environment requiring clear communication, accurate documentation, situational awareness, practical problem solving, prioritization, and dependable follow-through.

Support Worker | BBI & FBGC | 2022-2024

- Built several years of professional experience centered on responsibility, judgment, communication, documentation, reliability, and solving practical problems with people.

EDUCATION & ADDITIONAL

One Year of Information Technology Studies | NBCC | 2018-2019 - Microsoft server administration, Linux fundamentals, networking/server concepts, programming principles, and computer science fundamentals.

High School Diploma - Honours | Valid Driver's Licence | Red Cross CPR/AED