

Jasman Tan — Software Engineer

Software engineer with 6+ years building and integrating business-critical systems: C#/.NET and T-SQL back ends, JavaScript/TypeScript front ends, REST and ERP integrations, and operator-facing dashboards used daily across five manufacturing sites in four countries. Recent independent work in Python, Postgres/Supabase, Flutter and LLM-agent tooling. Looking for a backend or full-stack engineering role.
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SKILLS

- **Languages:** C#, T-SQL/SQL, JavaScript, TypeScript, Python, PowerShell, C/C++, Java, Dart (Flutter), GDScript
- **Back end & data:** .NET, SQL Server (multi-database, stored procedures, performance fixes), PostgreSQL/Supabase (auth, row-level sync), REST APIs, ERP↔application integration (SAP), ETL-style reporting, timezone-correct multi-site data handling
- **Front end:** HTML/CSS/JavaScript dashboards, Flutter mobile (Android/iOS), responsive multi-language UIs (6 locales)
- **Engineering practice:** Git/GitHub, GitHub Actions (CI/CD and Pages deploys), Playwright end-to-end tests, change-request to production deployment and post-deploy verification, L1/L2/L3 production support, technical and functional documentation
- **AI tooling:** LLM-assisted development workflows (Claude Code, structured prompts, agentic scripts), API integration with LLM back ends

EXPERIENCE

Software Engineer, Manufacturing Systems (MES) — Interplex Precision Technology, Singapore · Dec 2021 – present

- Own end-to-end delivery of production features across a 6-database SQL Server estate serving 5 plants (Singapore, Batam, Czech Republic, China, India): requirements, T-SQL and workflow-engine implementation, dashboard front end, deployment and post-deploy verification.
- Built and maintain the SAP ERP ↔ MES integration layer: goods issue/receipt, handling units, time-ticket outbound and the production-order inbound lifecycle, running across four countries.
- Root-caused and fixed a production routing defect that sent operator scans to the wrong work order, replacing iframe-focus heuristics with active-step resolution.
- Built production reporting dashboards in HTML/JavaScript over SQL Server: serial-number genealogy and traceability, per-operator labour, time-ticket and machine-timeline views, with plant-local time handling.
- Designed a centralised 6-language (EN/ID/CZ/ES/TA/ZH) translation system spanning dashboards and workflows, with Python tooling to sync translation sources.
- Wrote Python and PowerShell tooling for installers, schema checks and release bundles; author change requests, patch notes and runbooks used by site engineers.
- L1/L2 support for HYDRA MES across China and USA regions.

Software Engineer — NCS Pte Ltd (government-linked IT services), Singapore · Apr 2020 – Nov 2021

- Full-stack development, enhancement and maintenance of client applications in C#, HTML, JavaScript and SQL.
- Impact analysis, defect fixing and documentation (technical designs, functional specifications).

Unity3D Developer (Intern) — Affinixy Pte Ltd · Apr 2019 – Dec 2019

- Shipped a mobile game to Android and iOS (cubemeltgame.com): core systems, AI, NavMesh pathfinding, gameplay and UI/UX direction.

INDEPENDENT PROJECTS (2026, GITHUB.COM/JASMANTAN1)

- **Baby Roadmap** — single-page web app for new parents: development timeline, feed/sleep diary with pattern analysis, growth charts, knowledge base and family tree. Vanilla JavaScript front end; Supabase (PostgreSQL, auth) syncing two parents under a shared family code; Playwright end-to-end tests; deployed on GitHub Pages.
- **jobgrab** — Python job-matching tool: pulls postings from four sources (MyCareersFuture API, LinkedIn, Careers@Gov, employer feeds), scores them against a skills profile, serves an interactive HTML UI from a local HTTP server, and drafts cover letters through an LLM CLI.
- **Ennovi Arcstone app** — Flutter/Dart mobile client for a manufacturing system (Android/iOS).
- **Mobile games (Godot 4, GDScript)** — several one-thumb Android prototypes with gesture recognition, procedural content and Python build tooling.

CERTIFICATIONS

- **Arcstone System Assessment — Intermediate** — Arcstone Pte. Ltd., July 2025. arc.ops MES end-to-end configuration. Certificate ID ARC-SA-2025-002.
- **MPDV Certified HYDRA 8 Developer** — MPDV.

EDUCATION

- BSc Computer Science & Game Design — DigiPen Institute of Technology, Singapore, 2015–2020. First Place — Claude Comair Grand Prize for Game of the Year, DigiPen Game Awards 2019 (Kubrix, gameplay programmer, custom ImGui editor).
- Diploma in Electronics, Computer & Communications — Nanyang Polytechnic, 2010–2013.

LANGUAGES

English (primary), Chinese (conversational)