

Thomas Ward

Software Engineer | Full-Stack

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Software Engineer with hands-on experience delivering backend APIs, frontend features, and operational tooling in production environments. Strong track record improving reliability, data quality, and delivery speed through automation, incident response, and cross-functional engineering collaboration. Uses AI-assisted development tools including OpenAI Codex and GitHub Copilot to accelerate exploration, implementation, documentation, and testing while maintaining rigorous review and verification.

TECHNICAL SKILLS

Languages Python | C# | TypeScript | SQL

Backend REST API development and integration | FastAPI | Flask | ASP.NET Core | Minimal APIs | API validation tooling

Frontend React | Angular | TypeScript | Tailwind CSS | Recharts

Databases & data PostgreSQL | SQL Server | Pandas | OpenF1 API | data pipelines | SFTP ingestion workflows

Cloud & DevOps GCP | Linux | Docker | Git | CI/CD

Operations Production monitoring | incident response | root-cause analysis | debugging | stakeholder collaboration | documentation

EXPERIENCE

Support Analyst (Software Engineering)

Energy Potential Tech | September 2025 - Present

- Built Python automation for API response validation and PostgreSQL integrity checks, reducing key operational checks from 3-4 hours to under 10 minutes.
- Delivered full-stack enhancements using a Python backend and React frontend on the core production platform, alongside targeted fixes in legacy modules.
- Led integration of a client billing workflow, replacing spreadsheet-driven processes with a production system handling 144 records per day per site (around 4,300 monthly per site).
- Investigated production defects through monitoring, log analysis, and root-cause diagnosis to improve incident handling and platform reliability.
- Collaborated with developers and stakeholders on internal tools and documentation that improved cross-system performance and support efficiency.

EDUCATION

BSc Computer Science, 2:1

University of Leeds | 2020 - 2023

Final-project research explored how changes to AI evaluation functions influence optimisation strategy, accuracy, and decision-making.

PROJECTS

F1 Analytics Platform

React | TypeScript | Tailwind CSS | React Router | Recharts | OpenF1 API

- Built a React and TypeScript analytics workspace with dashboard, driver analysis, side-by-side comparison, race strategy, and raw data explorer views.
- Connected cascading season, meeting, and session selectors to OpenF1 data, with telemetry charts, tyre stint timelines, pit-stop summaries, and CSV export.

Energy Tariff Calculator

React | Python | Flask | Pandas | Excel data

- Built a Flask endpoint and React upload flow to process electricity consumption spreadsheets, tariff rows, and site capacity.
- Automated red, amber, green, and capacity charge breakdowns for operational billing workflows.

Downstream Customers API

C# | .NET 8 | ASP.NET Minimal APIs | Swagger/OpenAPI | graph traversal

- Designed a Swagger-documented minimal API with network and customer request models.
- Implemented branch traversal and aggregation to return downstream customer totals from a selected node.

ADDITIONAL EXPERIENCE

PAT Engineer Calbarrie Cheshire | May 2025 - August 2025

Warehouse Operative Ralawise | October 2024 - May 2025

Sales Assistant JD Sports | October 2022 - July 2024

These roles developed reliability, communication, and delivery under pressure in operational environments.