

TIM JOHAN

FULL-STACK DEVELOPER | APPLIED AI & PRODUCT DEVELOPMENT

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PROFILE

Full-stack developer with 6+ years of professional software experience, mainly working with Python and TypeScript. I like projects where the solution is not completely defined yet: understanding the problem, deciding what makes sense to build and then actually building it. Over the last year I have worked heavily with practical AI applications, including document processing, structured data extraction and AI-enabled product workflows.

CORE SKILLS

FULL-STACK

TypeScript, React, Next.js, Angular

PYTHON BACKEND

Python, Flask, FastAPI, SQLAlchemy

DATA & DATABASES

PostgreSQL, SQL, Supabase, Alembic

APPLIED AI

OpenAI/Claude APIs, structured outputs, document extraction, LLM workflows

DELIVERY

REST APIs, integrations, Docker, Git/GitHub, Linux, Vercel, CI/CD

PRODUCT

MVP scoping, product decisions, stakeholder communication, end-to-end delivery

EXPERIENCE

Freelance Full-stack Developer | AI & Product Development

TJDeveloper | Oct 2025 - Present

- Build complete digital products, internal tools and automation workflows for companies and my own product projects, usually starting from a business problem or early idea rather than a finished technical brief.
- Work across Next.js/React/TypeScript, Python, PostgreSQL/Supabase and Vercel, and build practical AI functionality for document processing, structured extraction, validation/reconciliation and workflow automation.
- Returned to SmartLoxs as a freelance developer after leaving employment, working on separating administrative functionality from the main dashboard into a dedicated admin application.

Software Developer

SmartLoxs | Oct 2022 - Sep 2025

- Worked full-stack on SmartLoxs' production platform with Angular/TypeScript on the frontend and Python, Flask, SQLAlchemy and relational databases on the backend.
- Built and maintained operational flows used around Schiphol, including workflows for truck drivers arriving at and being processed by different handlers.
- Delivered production features across frontend, backend, APIs and database migrations, while becoming increasingly involved in clarifying requirements and turning operational problems into workable software solutions.

Software Engineer

Parkeagle | Apr 2020 - Oct 2022

- Started with my graduation project: Python software that detected and counted moving and parked vehicles from camera footage. I stayed afterwards as a Software Engineer.
- Automated data analyses and internal processes and built GUI applications for viewing and editing database-backed data.
- Worked mainly with Python, Pandas, NumPy, PyQt5 and OpenPyXL in data-heavy operational software.

Co-founder | Software Developer

Soilspect | Mar 2019 - Apr 2022

- Co-founded a technology startup focused on automating ground-settlement measurement for infrastructure and construction use cases.
- Owned much of the software side, including data processing and the online dashboard, using Python, Django, JavaScript, HTML/CSS, Linux and Git.
- Soilspect won the best startup award during the minor; while I was involved, the company received EUR 25,000 from the HBO Take-off fund and EUR 50,000 from ESA.

SELECTED PROJECTS

Audit-Sure - public website & admin platform | audit-sure.nl

Built Audit-Sure's complete web platform from scratch. The first version combined the public site and admin environment in one React application. I later rebuilt the public site in Next.js and split the administration into a separate dashboard, with Supabase-backed content and careers workflows and deployment on Vercel.

AI document processing & reconciliation

Built a document-processing workflow that turns invoices and other PDFs into validated structured data, including extraction, classification, duplicate checks and reconciliation logic for ambiguous supplier/customer information.

PieceStamp - artist platform | piecestamp.com

Built a platform for artists with public portfolio pages and a private dashboard for managing artworks and digital story/QR experiences.

Additional live client work: astridstoffels.com

EDUCATION

Bachelor of Science - Mechatronics & Robotics

Amsterdam University of Applied Sciences | 2017 - 2020

- Technical bachelor combining software, electronics, automation and robotics. Graduation project at Parkeagle focused on Python-based computer vision for vehicle detection and counting.

Minor - Startup Your Business in Technology

Amsterdam University of Applied Sciences | 2019

Co-founded Soilspect during the minor and continued building the company afterwards; the team won the minor's best startup award.

LANGUAGES

Dutch - native | **English** - professional working proficiency