JAKUB PILECKI

STARTUP TECHNOLOGY LEADERSHIP: CTO • Architect • Lead Developer

kuba@strangefog.com • +48 662 091 824 • GitHub • Docker Hub • Stack Overflow • Toptal

SUMMARY

Business-focused CTO, architect, and hands-on developer combining SaaS delivery with OpenAI and RAG engineering. Led teams of **up to 20** and managed a **$500K** budget; built a platform now supporting **100K+** users and **over 1M** registered vehicles. Connects product strategy with core implementation, legacy modernization, and complex data migrations.

PROFESSIONAL EXPERIENCE

coLAB

Chief Technology Officer (CTO) / Co-founder / Board Member
2025–Present

Define product strategy and architecture for coVERVE, assessment software for nonprofit organizations. Lead a 3-member development team.

- Wrote the core code for the entire application and implemented its AI functionality.
- Built OpenAI-based RAG pipelines that consolidate surveys, assessments, and documents into stakeholder reports and proposed improvement plans; engineered prompts and confidence tests.
- Select models by task to optimize costs; currently implementing tool calling.
- Delivered the current version in **6 months**; coVERVE is live and gaining its first paying customers.

Advanced Metrics — Mountville, PA

Chief Technology Officer (CTO)
2024-2025

Led technology strategy and modernization for this behavioral health and human services software provider.

- Built and led a **20-member** team across backend, frontend, DevOps, and QA; managed a **$500K** budget.
- Across the full tenure, designed and built Qualo—used by **over 4,000** U.S. healthcare providers across 50 states—plus Maxwell, Teen Hope, and COVID-19 Contact Tracker.
- Architected a replacement platform and planned legacy support, customer migration, and application retirement.
- Migrated **10M records** and **5 major customers**; retired **3 legacy solutions**.
- Ensured software, infrastructure, architecture, and security met SOC 2 and HIPAA requirements; participated in audits.

Advanced Metrics

Director of Technology
2023–2025

Led a team of 10, aligning product development, legacy retirement, and customer migration with senior leadership.

- Defined Qualo's architecture and implemented its core libraries and services.
- Built and launched the new product in **approximately 1 year** after 5 years of delays; refined it further as CTO.

Advanced Metrics

Solution Architect / Lead Software Engineer
2020–2023

Architected, maintained, and expanded the suite. Highlights across Senior Developer and Architect roles:

- Led Healthy Pathways architecture and development, including frontend coordination.
- Built reusable OData, RabbitMQ, notification, event, and dynamic-form services.

Advanced Metrics

Senior Developer
2017–2020

Refactored core applications; introduced synchronization and email/SMS services into the existing monolith.

- Built a reusable WYSIWYG assessment editor adopted across multiple applications.
- Created an offline assessment app for Windows tablets, with synchronization when connectivity returned.

PROFESSIONAL EXPERIENCE

DoNotCopy — Edenvale, South Africa

Chief Technology Officer (CTO) / Co-founder / Lead Software Engineer
2023–Present

Designed blockchain-based SaaS architecture, MacroTag security measures, and a source-of-truth database.

- Built an MVP within weeks, covering frontend, backend, databases, and hosting.

Recoveri — Edenvale, South Africa

Cloud Solution Architect / Senior Full-stack Developer
2019–2024; initial engagement in 2017

Designed the cloud architecture and rewrote the SaaS platform serving the South African market.

- Platform now supports **541** client organizations and **114,981** users, with **1,345,486** registered vehicles and **1,366,581** microdot pods.
- Maintained a **99.9% SLA over 7 years**, with **Volkswagen**, **eNatis**, and other vendor integrations.

General Technology — London, United Kingdom

Solution Architect / Lead Full-stack Developer
2020–2021

Designed and developed Visiting Teachers for teacher payments, billing, and schedules in UK educational institutions.

- Replaced the legacy MS Access application with plugin-based .NET Core and Angular applications while preserving data-model compatibility.

Depoway — London, United Kingdom

Founder / Lead Developer
2020–2021

Co-founded this international financial deposit startup. Developed core system components and the mobile application.

PayoBox — Warsaw, Poland

Senior Software Engineer
2018

Led product development; built banking integrations, a currency-exchange microservice, and messaging services.

inviPay.com — Warsaw, Poland

Founder / Vice President (VP) / Software Engineer
2015–2017

Co-founded this Polish micro-factoring pioneer. Defined requirements, designed solutions, and directed on-site pilot deployment.

- Built banking and fraud-detection integrations; prototyped a secure cashless payment device and its software.

EDUCATION

Poznan University of Technology
Master of Science in Engineering
Laboratory of Intelligent Decision Support Systems

University of Computer Sciences and Skills in Lodz
Bachelor of Engineering — Software Engineering Faculty

SKILLS

C#, Java, TypeScript, JavaScript, SQL; .NET/.NET Core, ASP.NET Core, Entity Framework Core, Angular, Spring Boot.
Azure, Docker, Kubernetes, Azure DevOps, CI/CD, Git; PostgreSQL, SQL Server, MongoDB, Redis, RabbitMQ.
Distributed systems, microservices, REST, GraphQL, OData; OAuth 2.0, OpenID Connect (OIDC), single sign-on (SSO).

OpenAI, LLMs, retrieval-augmented generation (RAG), prompt engineering, AI pipelines, output validation.