ENGINEERING PROCESS · ARCHITECTURE · INFRASTRUCTURE

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I take the technical side of a product end to end: how it is designed, how the code gets written, and what it runs on. Co-founder and CTO at two companies, with eight years of backend and distributed systems work behind that. Most recently I built a Kubernetes control plane that runs 265+ production tenants, and the engineering process where AI agents write our production code under human review.

EXPERIENCE

Easy · Co-founder & CTO

Jan 2026 – present

An AI agent platform. I am the sole architect and developer of the control plane that manages every customer installation across four production clusters and three environments.

- Built the tenant lifecycle end to end: provisioning, upgrades, recovery, teardown. What used to be a manual and error-prone process is now self-service, and it runs 265+ tenants in production. Eight months from nothing.
- Designed the asynchronous operations engine that every change to an instance goes through, so the work is queued, tracked and conflict-safe. Stuck and half-applied deployments stopped happening. Started as sagas over RabbitMQ and Rebus; I since moved it onto Temporal, which now runs all provisioning in production, around 200 operations a day.
- Added multi-cluster support with capacity-based placement, so the platform scales sideways without anyone assigning tenants by hand.
- Migrated the built-in auth into a separate identity service on OpenIddict and extended it: passkeys, and a Telegram bot as an additional 2FA method alongside the usual authenticator app. The bot also became a direct channel to the customer and the route security notices go out through.
- Automated billing and access: subscription reconciliation against the payment provider, grace periods, custom domains with automatic SSL, 2FA, encrypted credential storage.
- Built the fleet view the operations team lives in: health and capacity dashboards, rollout tracking, audit logging, and a React admin with search across users, agencies and instances.
- Designed the process where AI agents author and review our code while I own review and release. Architecture decisions are written down, recurring mistakes go into a pitfalls catalogue, review and tests gate every change. It ships to production continuously.

Stack: C#, .NET, OpenIddict, React, TypeScript, MongoDB, RabbitMQ, Temporal, Kubernetes, Helm, Rancher

Generation One · Co-founder & CTO

Jan 2023 – present

A decentralised food delivery network where restaurant nodes run autonomously, with central services only for notifications and payments. Around 15 restaurants, their couriers and the co-ops that own the platform.

- Designed the network layer: a custom TCP stack with MessagePack serialisation, holding sub-millisecond message processing.
- Built the authorisation framework. Delegation certificates are CBOR-serialised, small enough to fit in an HTTP header, with chainable scoped permissions and Ed25519 request signing. CBOR instead of JWT for size, Ed25519 for verification speed.
- Built a provider-agnostic payment gateway with multi-party payouts, VAT compliance and cross-border transactions. Stripe Connect went in first.
- Wrote the search and ranking engine: one query retrieves and ranks restaurants and their products together through a hierarchical scoring pipeline, on Meilisearch with OpenAI embeddings for the semantic half.
- Set up distributed telemetry. Every restaurant node runs its own OpenTelemetry Collector and forwards to a central Tempo, Loki and Prometheus stack, so the whole network is visible in one place.
- Open-sourced G1.Stripe.Maui, Stripe PaymentSheet bindings for .NET MAUI on iOS and Android. The iOS half needed Swift to Objective-C to C# bridging by hand because nothing existing worked. It found users and went to a new maintainer when we moved off MAUI.
- Shipped the mobile app on .NET MAUI, then co-led the rewrite to React Native with a team of two.

Stack: C#, Go, ASP.NET, MongoDB, Kubernetes, Helm, Terraform, Meilisearch, Stripe Connect, React Native, React, Next.js, OpenTelemetry, Grafana, Tempo, Loki, Prometheus, MessagePack, CBOR, Ed25519, Azure Pipelines, OVH

WOM Protocol · .NET Developer

May 2020 – Feb 2023 · Berlin

Infrastructure for a token-based marketing platform: custodial wallets, payouts, and the affiliate programme that paid users for the videos they made. I worked independently, taking requirements straight from the business side.

- Rewrote the token distribution maths so the whole allocation could be expressed as a composable pipeline, which made it possible to reason about and to run at scale. The original version did not compose.
- Built the custodial wallet and payout infrastructure on Ethereum with our own smart-contract token, talking to the chain through Infura and Alchemy.
- Maintained private NuGet packages shared across the platform, and the CI/CD and cloud setup around it: Cloudflare CDN, Firebase Cloud Messaging, AppCheck.

Stack: C#, ASP.NET, gRPC, Hangfire, MongoDB, Elasticsearch, Ethereum, Grafana, Kibana

YEAY GmbH · Senior .NET Developer

Mar 2020 – Jul 2023 · Berlin

The consumer social network built on top of that infrastructure. Around 10,000 users posting video.

- Built the product side of the backend: feed and video endpoints, user-facing features, the API the mobile apps ran against. Same arrangement as on the protocol side, picking up work directly from the people who needed it.
- Database work that kept it usable as the content grew: normalisation, query optimisation, indexing.
- Code review and refactoring across the team, plus the documentation nobody else wanted to write.

Stack: C#, ASP.NET, gRPC, Hangfire, MongoDB, Elasticsearch, Grafana, Kibana

340 Basics · Senior .NET Developer

Jun – Aug 2021

- Large dataset processing and CI/CD on Azure and MS SQL Server. Details under NDA.

NRG Soft · .NET Developer

Jun 2018 – Sep 2020

- Worked on Cirrus Assessment, an online exam platform used by universities internationally. Architecture, releases and hotfixes, a PDF generation service, SSO integration, and the query and performance work that came with scale.

Stack: C#, ASP.NET, Web API, AWS SQS, MongoDB, Redis, TeamCity

Freelance and contract work · Developer

2016 – 2018

- Paid development work alongside university, mostly small web and desktop projects for local businesses. Where the commercial side of the ten years starts.

TECHNICAL

PLATFORM	Kubernetes, Helm, Rancher, Envoy Gateway, cert-manager, Terraform, Docker, AWS, GCP, OVH
OBSERVABILITY	OpenTelemetry, Prometheus, Grafana, Loki, Tempo, Elasticsearch, Kibana
BACKEND	C#, .NET, Go, Node.js, Python, MongoDB, PostgreSQL, Redis, RabbitMQ, Temporal, gRPC, Meilisearch
FRONTEND	TypeScript, React, Next.js, Vite
MOBILE	React Native, .NET MAUI
PRACTICE	Multi-tenant architecture, distributed systems, CI/CD, infrastructure cost modelling, AI-assisted engineering workflows

EDUCATION

Far Eastern State Transport University · BSc Software Engineering, with distinction

2014 – 2018

Kwangwoon University, Seoul · Exchange, computer software

2017 – 2018