

Senior software engineer with a proven record of technical leadership and achievement, across a wide range of problems and disciplines:

- › driving projects from conception to successful adoption and sustainable growth
- › acquiring and applying deep domain/subject matter expertise
- › fostering an engineering culture of velocity, quality, and continuous improvement of both
- › reducing and overcoming risk, to grow and deliver on new project/business opportunities

Expertise • Domain-driven design & architecture • Technical vision, direction & execution
• Web apps & services • Performance

Web UI & UX • React (+ Preact & similar) • Reactivity (framework-agnostic) • “Vanilla” JS • Vue

Languages • TypeScript/JavaScript • CSS • HTML • SQL • Python • Swift • Java

Niche/Esoteric • ODK XForms & XPath • Clojure • SolidJS • DSLs (parsers, semantics & runtime)

Recent Experience

ODK Senior Software Engineer, 3/2021-4/2025*

Created & led development of ODK Web Forms, a web-based complement to their flagship Android app.

* 2021-2023: Maintainer of ODK Web Forms' legacy predecessor, Enketo.

- › Conceived and prototyped foundations for ODK Web Forms—first as a skunkworks project on personal time, ultimately forming the basis for formally evaluating the project's viability.
- › Led design & architecture to ensure core product/business goals: initial alignment with the flagship Collect app for Android; sustainable productivity and maintainability for user-facing functionality core to the business; anticipation of long-term unification on a single tool/platform.
- › Primary development of ODK XForms and XPath engines. Responsible for design & implementation of parsing, data model, runtime computational architecture, and client-agnostic rendering APIs.
- › Prototyped initial UI/UX; collaborated with dedicated UI developers as team grew; coordinated downstream integration with team developing ODK Central software for form and submission management.

Reup → Mister Kraken → Treez Senior Software Engineer, 11/2015-9/2020*

Full-stack web service & application development serving a diverse range of responsibilities related to the legal cannabis industry.

* Reup partnered with Mister Kraken in 2017; both companies were acquired by Treez in 2018.

Treez 2018-2020

- › Led integration between Treez B2B inventory management services, and Mister Kraken's extant integrations with state-mandated traceability services; expanded on prior success maturing said integration to all major regulatory & vendor environments.
- › Built robust & general web service tooling as basis for Treez/Mister Kraken integration. By time of my departure, this tooling had become a foundation for all new and anticipated service development.

- › Intervened on personal initiative in the wake of widespread vendor outages and data corruption, instituting reliable, auditable, and reproducible processes to recover/reconcile customer regulatory reporting and inventory data.

Mister Kraken 2017-2018

- › Led efforts to mature and adapt early-stage integrations with WA state-mandated traceability services, ensuring stable continuation of service for customers through abrupt/rapid changes to the state's regulatory environment and service vendor.
- › Promoted a team culture shift to embrace automation & other safeguard processes, significantly improving velocity and product quality alike.
- › Integrated Reup's B2B marketplace software, filling the remaining gaps in Mister Kraken's end-to-end inventory management offering.

Reup 2015-2018

- › Led technical design & development of Reup's core web application, a B2B cannabis supply chain marketplace.
- › Shared leadership & development of associated web services.
- › Joined founders & design team in user research to ensure direct engineering involvement in product-market fit.

ClipCard

Senior Software Engineer, 4/2013-8/2015

ClipCard was a set of apps and services which let users find files, notes and more across a wide variety of consumer and business cloud services by indexing those resources in a common format.

- › Led design and development an ETL framework used by all of ClipCard's API integrations, providing simple, generalized interfaces to accelerate development of service API authorization, backpressure, fault tolerance and extract/integration patterns.
- › Contributed to 12 of ClipCard's API integrations, leading development on integrations with Dropbox, Evernote, GitHub and Trello.
- › Led frontend architecture and development of ClipCard's web app, and provided mentorship for the team member who eventually replaced me in that role as I transitioned to to lead API integration efforts.
- › Organized a hackathon which produced 8 API integration prototypes, ultimately leading to the company's pivot from enterprise services to focus on cloud services and consumer adoption.
- › Designed and developed ClipCard for Mac.

Projects

24 projects listed at eyelidlessness.github.io/projects

References

Available upon request, email gnosis@gmail.com