

# Luke Horton

bitsbyluke.com  
lukewhorton@gmail.com  
(603) 707-7027

I have over a decade of experience solving complex business problems, often with software. My expertise includes designing and building systems from scratch, as well as incrementally refining existing systems to unlock new capabilities. I also have an affinity for teaching, especially when it involves software craftsmanship.

## Skills

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Preferred **languages**: Clojure (7+ years), Elixir (5+ years), Javascript (10+ years), Datalog (2+ years), SQL (8+ years), HTML/CSS (10+ years), Elm (hobbyist)

Recent **frontend tooling**: React, re-frame, reagent, d3js, highcharts, Vue, Angular, Svelte, Backbone, Hotwire, Unpoly, htmx, Webpack, Puppeteer, Playwright, Selenium, Canvas, Tailwind, websockets

Recent **backend tooling**: AWS, GCP, Digital Ocean, Postgres, Datomic, Docker, JVM, BEAM, Kafka, Elasticsearch, GraphQL, HATEOAS and RESTful APIs, Redis, NextJS, Phoenix, Oban, Proletarian, OTEL, crawler-commons

## Professional Experience

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### Staff Software Engineer

Stord

Apr 2022 - May 2023

As a key member of the “Marketplace” team, I helped to standardize third-party integrations, ensure the integrity of all order-related data, develop third-party marketplace applications, onboard customer’s data, and implement the public API.

- Built an eventually-consistent drift detection and reconciliation system to address the unreliable nature of N-directional third-party sources.
- Architected and engineered the company's first public API offering, granting existing integration partners an 80x improvement over previous p95 response times.

### Senior Software Engineer

Aclaimant

Feb 2020 - Apr 2022

We eliminated the insurance/claims paperwork problem for small to mid-sized businesses by providing an incredibly configurable workflow and reporting management platform. I was directly responsible for many platform features including the notifications system, role and field-level permissioning, anonymous incident reporting, admin management, OSHA filing, and more.

- Defined and implemented a risk/claim management platform resulting in a 50% reduction in claim processing time, a 21% average reduction in comp costs, and up to 12 fewer admin hours per claim.

### Senior Software Engineer

Very

Feb 2018 - Mar 2020

On behalf of Very, I provided technical and business expertise for a variety of companies on small (6 week) to mid-term (6 month) contracts. I designed and built numerous MVPs and production-ready applications, and acted as a rescue-operator for underperforming teams in larger organizations.

- Engineer, architect, consultant, and salesperson for clients across the domains of finance, construction, fabrication, retail, and education.

### Software Engineer

Acrospire Financial Technology

Jul 2015 - Feb 2018

We designed a novel algorithmic trading workbench for internal use at a private hedge fund. I introduced techniques such as idempotent, single-direction rendering and hypermedia resource design in order to markedly reduce complexity and improve overall resilience of the workbench. I also authored the portfolio visualization and introspection toolchain.

- Engineered a portfolio and strategy management platform enabling hedge managers (\$350M AUM) to evaluate complex algorithmic trading models through backtesting.

### **Front End Engineer**

RedJack

Jul 2014 - Jul 2015

As part of a small product team, I collaborated with numerous SecOps SME consultants to help define and implement a novel network monitoring application for use at NSA contract sites, as well as regional ISPs.

- Developed a high-performance network monitoring application to empower SecOps teams with anomaly detection through real-time network analysis.
- Implemented a “Disclosure Control Framework” prototype for the Department of Homeland Security to secure pilot study funding.

### **Front End Developer**

Endgame

Feb 2014 - Jul 2014

- Untangled two front-end prototypes into tested, resilient, and maintainable SPAs.

### **UI Engineer**

Millennial Media

May 2013 - Feb 2014

My first professional role after graduation, I was responsible for delivering purpose-built, custom dashboards to service campaign managers in a variety of contexts.

- Built an internal data visualization tool and alerting system which prevented \$10,000+ (per week) in misappropriated ad campaign spend.

## **Education**

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BS Computer Science  
St Lawrence University  
2013