Filipe Knoedt

Senior Software Engineer · Systems Architect

Back-end specialist: PHP, Laravel, data structures, and integrations. Also front-end development, DevOps, agentic AI, UX, and product ownership.

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SUMMARY

Systems architect with over two decades of designing, building, and maintaining back-end systems that still run core operations today. Expert in PHP, Laravel, object-oriented programming, data structures, integrations, and optimization, with broad knowledge of full-stack development, DevOps, and DevSecOps. Drives agentic AI tools, such as Claude Code, Codex, and Grok Build, to deliver higher-quality solutions in less time.

EXPERIENCE

Senior Software Engineer, Alma Technologies — Apr 2026 – Oct 2026

Alma is a cloud-based student information system that improves school operations and supports better student outcomes.

Joined a growing engineering organization on the Core Engineering team, responsible for all development within Alma's student information system and its supporting platforms.

- Implemented SSO integrations between the student information system and third-party providers, letting a partner school district log in through miniOrange.
- Built new product features and API endpoints while maintaining diverse parts of the applications.
- Reviewed code to uphold quality, standards, and best practices.

Stack: PHP, Laminas/Mezzio, Vue.js, Nuxt, TypeScript, MongoDB, Codeception

Founder, Orbit BTC — Feb 2025 – Apr 2026

Orbit is a platform for advanced Bitcoin analysis that lets users combine on-chain and market metrics and monitor them.

Left Pathful to launch a startup and build a platform for analyzing compound financial metrics.

- Built a platform that analyzes a digital asset through compound metrics, live at orbitbtc.space.
- Mothballed the project after struggling to find investors and product-market fit.

Stack: PHP, Laravel, Laravel Cloud, Livewire, Filament, PostgreSQL, math algorithms, ApexCharts, Angular, Tailwind CSS

Senior Software Engineer, Pathful Inc. — Oct 2020 – Jan 2025

Pathful built a career-readiness SaaS platform for academic institutions that serves about 2.5 million students in the US.

Joined full time as Pathful's primary back-end developer, leading the implementation of diverse features, integrations, and APIs built in PHP.

- Independently built a greenfield message hub that integrates all internal platforms and authenticates users.
  - Delivered a fully functional, efficient hub in eight months, capable of synchronizing millions of operations a day.
  - Built several integrations with internal and external platforms, such as Salesforce, and supported an offshore team in India integrating another platform.
- Integrated a heavily used Salesforce instance with Pathful's platforms, which still runs effectively today.
- Proactively monitored and fixed bugs with Sentry.

Stack: PHP, Laravel, SQL Server, PostgreSQL, JavaScript, TypeScript, React, Elasticsearch, AWS

Senior Back-End Engineer, Unleashed Technologies — Jan 2020 – Oct 2020

Unleashed Technologies is a consulting company of about 80 employees.

Back-end developer for multiple client projects. Highlights:

- Enterprise Wireless Alliance, EWA: developed an advanced search product for Spectrum Intel, implementing Elasticsearch on top of large MySQL databases, with tables over 70 GB, for nationwide FCC spectrum and antenna licensing.
- BSN Sports: contributed to the back end of a customized e-commerce platform built on Symfony, working with Symfony's engineering team in France.

Stack: PHP, JavaScript, Symfony, Drupal, Elasticsearch, PostgreSQL, SQL Server, MySQL, SQLite, AWS, Azure

Senior Full Stack Engineer, Union.co Feb 2018 – Dec 2019

Union.co, now Valtech, was a digital marketing and technology services company.

Contributed to diverse projects, focused on back-end development.

- Supported the development of high-traffic portals with millions of daily active users.
- Took part in development and integration projects, including projects for RJR, the tobacco giant.

Stack: PHP, JavaScript, Node.js, React, MySQL, SQLite, SQL Server, Oracle

Founder, Teck Labs Jan 2007 – Feb 2018

Teck Labs built an ERP and CRM for publishing companies in Brazil.

Partnered with two co-founders to launch and run a startup that built and sold a custom SaaS ERP and CRM for the publishing industry. Product website: tivel.com.br

- Served as the primary architect of the software, which still runs the core operations of several clients on its original back-end architecture.
- Grew the business to about 10 staff at its peak, and sold equity to a partner in Brazil after moving to the US.

Stack: PHP, JavaScript, CSS, PostgreSQL

Additional experience includes a role at Accenture.

SKILLS

Programming languages: PHP, JavaScript, C, Java, Python, Shell Script, PL/SQL, Perl

Frameworks: Laravel, Livewire, Filament, Symfony, Slim, React, Node.js, Vue.js, Nuxt, Angular, Tailwind CSS, jQuery, Bootstrap, Express

Data layer: PostgreSQL, MySQL, SQL Server, Oracle, SQLite, MongoDB, Redis, Elasticsearch, OpenAPI, advanced queries, profiling, tuning

Systems and practices: RESTful APIs, ORMs, GraphQL, OAuth2, JWT, SSO, DNS, CMS, CRM, ERP, e-commerce, payment gateways, GIS, caching and queue systems, mail servers, ad servers, Scrum, multi-threading, multi-tenancy, OWASP, microservices, machine learning, Gitflow, CI/CD

AWS: EC2, S3, RDS, Aurora, Redshift, ElastiCache, OpenSearch, Lambda, Glue, API Gateway, load balancers. **Other clouds:** Laravel Cloud, GCP, Azure, DigitalOcean

Tools and services: Docker, Vite, Pest, Codeception, Sentry, New Relic, Stripe

AI: Claude Code, Codex, Grok Build, and Copilot

EDUCATION AND LANGUAGES

Bachelor of Computer Science, Pontifícia Universidade Católica do Rio de Janeiro, PUC-Rio

Generalist Software Engineering certification, Karat, formerly Triplebyte

Languages: Portuguese, native; English, fluent; Spanish, conversational