EMMANUEL PINAULT

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SUMMARY

Principal software engineer with 20+ years of experience building backend platforms, with deep expertise in Elixir. Led large-scale legacy migrations, designed shared libraries and architecture used across dozens of services, and built AI-driven automation for the software development lifecycle.

TECHNICAL SKILLS

Languages: Elixir, Go, Ruby, SQL, JavaScript, HCL (Terraform)
Frameworks: Phoenix, Rails, React
Infrastructure: AWS (EC2, S3, RDS, Route 53, IAM, Auto Scaling), Kubernetes, Terraform, Datadog, Linux
Data & Messaging: PostgreSQL, MySQL, Redis, Kafka, RabbitMQ, Elasticsearch
AI-Assisted Development: Claude, Greptile, custom agent platforms
Languages Spoken: English (fluent), French (native), Spanish (intermediate), Khmer (beginner)

PROFESSIONAL EXPERIENCE

Podium – Principal Software Developer *January 2021 – Present | Remote*

- Built a Cloud Agent platform that autonomously implements changes, runs tests, and opens verified pull requests across 350+ repositories (about half of them services), cutting task turnaround from days to hours.
- Automated large parts of the SDLC with AI (maintenance, code review, upgrades) and built a small agent platform for documentation and operational supervision of production services.
- Re-architected the legacy CRM in 8 months and migrated 700M contacts and 2.8B events with zero downtime. Built the company's shared sharding library in the process.
- Led the 8-month migration off the Rails monolith, moving 40+ services with a transition design that let teams cut over quickly and safely.
- Drove consistency and maintenance of 70+ older services and 50+ libraries to improve developer efficiency and safety.
- Authored shared Elixir libraries (Kafka, Redis, Elasticsearch, and other reusable components) that ensure consistency, safety, and speed of implementation across services.
- Member of the architecture group guiding cross-product architecture decisions; drove ISO and SOC 2 compliance work for the platform.

Outreach.io – Principal Software Developer *November 2016 – January 2021 | Seattle, WA*

- Architected and built a configurable bi-directional sync service between Outreach and Salesforce (Elixir, PostgreSQL), the critical path for onboarding customer data and keeping both systems in sync.
- Architected a queue throttling system (Elixir, Kafka) that limits heavy-usage queues to protect customer databases from overload.
- Improved batch actions, mailings, and error reporting in the main Rails app, and created frameworks for shared code and error handling.
- Built Go tooling for the developer environment and a code-generation framework for creating consistent Go microservices quickly.
- Served on call for production stability and recovery (Terraform, AWS EC2/RDS, Datadog, Elasticsearch, RabbitMQ, CouchDB).

Zumobi – Senior Software Developer *March 2014 – November 2016 | Seattle, WA*

- Architected a publishing engine (Rails, Ruby) that automated mobile content for campaigns for Target, Sears, Zulily, AIG, Prudential and others, ranging from 10 to 50 million impressions.
- Designed a metrics and reporting pipeline with a custom Ruby ETL framework, processing about 20 million metrics per day.
- Built backends for the MotorTrend, automobile, and Ski & Snow iOS/Android apps, plus microservices wrapping the Twitter, IBM Watson, and YouTube APIs with quota management.
- Designed the AWS infrastructure (VPC, EC2, Auto Scaling, RDS, CloudWatch, Chef) and Ruby tooling to deploy and scale multiple environments.

Health123 – Senior Software Developer *September 2013 – March 2014 | Seattle, WA*

- Built the API backend (Ruby, Rails, JSON) for the new product version, and migrated all infrastructure from Heroku to AWS with improved backup, recovery, and repeatable deployments.

CollabNet – Senior Software Developer *April 2013 – September 2013 | Seattle, WA*

- Built features for Orchestrate, part of TeamForge (Ruby, Rails, MongoDB), and an installer (Capistrano) for flexible deployment of product components, in a Scrum environment.

Talent Technologies (Talemetry) – Lead Architect *September 2010 – April 2013 | Seattle, WA*

- Promoted from Senior Software Engineer to Lead Architect within 10 months after the TalentSpring acquisition. Owned the matching technology of the Talemetry platform (Ruby, Rails, Sinatra, MongoDB, MySQL, AWS).
- Led the DevOps team on release tooling (AWS APIs), built the data warehouse for internal and customer reporting, and created an internal authentication framework for service-to-service calls.
- Introduced code reviews, technical documentation, and better-fit tooling to scale the process to larger teams.

TalentSpring – Senior Software Engineer *February 2010 – September 2010 | Seattle, WA*

- Built a distributed resume importer that cut customer pilot start-up from days to hours, and a crawler framework (job boards, open web, ATS) that made new crawlers a matter of hours. Owned backend processing into Solr and server deployment and maintenance.

Mobile Integration Services – Lead Architect *November 2007 – February 2010 | Redmond, WA*

- Built R&D prototypes for AT&T (C++, IDLOS, Ruby, Erlang) and a Ruby/Selenium/Cucumber test automation platform; led a team of SDETs.

Earlier Experience *1999 – 2007*

- All Star Directories, Senior Software Engineer (2005–2007): Rebuilt the lead delivery system serving 5,000+ customers; built a PHP MVC framework that cut delivery time 30% and halved the codebase (100K to 50K lines); redesigned budget management affecting $26M in revenue.
- NCS Technologies (2004–2005): Built a high-availability provisioning platform for AT&T Wireless's 8M customers (C++, IDLOS, UML).
- Kabira Technologies, Software Engineer Consultant (2002–2004, Paris): Supported telecom projects for AT&T, Orange, and Vodafone; promoted to Technical Leader of the Customer Care Team.
- Alstom ESCA and Alstom EMM (1999–2002): Built web applications and internal tools (ASP/Oracle, Perl, C/C++, Java, PHP/MySQL) for utility software.

OPEN SOURCE

Maintainer of Elixir libraries **Hammer**, **Luhnex**, and **Slackbox**, and author of a rewrite of **Geocoder**.

EDUCATION

École Supérieure de Technologie Électronique (ESTE), France *Graduated July 1999*

B.S. in Computer and Electrical Engineering, with honors. Exchange year in Computer Engineering at Seattle University (1998–99).