

Dominic Baratta

LEAD SOFTWARE ENGINEER

hello@dominicbaratta.com

linkedin.com/in/dominicbaratta · github.com/dbaratta

EXPERIENCE

Senior → Lead Software Engineer, *Navigating Cancer* – Remote (Seattle, WA) Feb 2020 – present

- Promoted to Lead in Apr 2023; technical lead for 4 (3 SWEs + 1 QA); subject-matter expert for the Ruby on Rails platform that runs Navigating Cancer's core patient-care workflows.
- Extracted patient search from a 10+ year-old Ruby on Rails monolith into a Rails 7 microservice on AWS OpenSearch; cut P95 from 2s+ to under 300ms.
- Architected the Clinic Metadata Service, a Rails 7 microservice that became the source of truth for clinic data across the platform, replacing duplicated reads against the monolith.
- Engineered HIPAA / HITRUST audit-logging infrastructure capturing PHI access events across the platform.
- Led zero-downtime migration of a Rails 3.1 application from AWS Aurora v2 (MySQL 5.6) to Aurora v3 (MySQL 8).
- Migrated 50+ high-volume async jobs from Delayed Job to Sidekiq, cutting queue latency and reducing background-worker spend.
- Cut data backfill for the largest clinic (800k patients) from one month to under two weeks via pipeline parallelization and hot-path query optimization (>3x faster).
- Dockerized a 13-year-old Rails 3.1 application with tangled native dependencies, cutting new-developer onboarding from 2-3 days to under 2 hours and unblocking M-series Mac development.
- Authored a Terraform-deployable DataDog monitor template for REST endpoints; the standard SLO/alert pattern for new services.

Founder, *Buffalo Data Systems LLC* – Greater Seattle, WA Oct 2017 – Oct 2020

- Designed, built, and operated Georgie Scheduler, a Ruby on Rails SaaS for service-industry client scheduling and billing; ran the product end-to-end (engineering, ops, customer support).
- Built a Stripe integration with tipping, recurring plans, coupons, and chargeback dashboards.
- Built a Twilio integration for SMS appointment reminders and confirm/cancel-by-text workflows.

Software Engineer, *Dropbox* – Seattle, WA Aug 2018 – Feb 2020

- Built the API abstraction layer routing Dropbox.com and desktop-client integrations to 3rd-party comms providers (Slack, Zoom, etc.).
- Built the inbound webhook pipeline that kept Dropbox's caches of 3rd-party data (Slack, Zoom) consistent under continuous external updates.

Software Development Engineer II, *Amazon.com* – Seattle, WA Aug 2015 – Aug 2018

- Wrote a C host agent on EC2 bare-metal hypervisors that programmed AWS Security Group rules into the host's L2 bridge firewall from EC2 dataplane updates.
- Built the upload subsystem for a distributed file-sharing app (70,000 MAU, 30M+ files), backed by Amazon DynamoDB and S3.
- Designed the Rails STI storage model (on DynamoDB/S3) for multi-bitrate HLS adaptive streaming and migrated tens of thousands of fixed-bitrate videos to the new format.

Software Engineer, *Lockheed Martin Mission Systems & Training* – Greater Binghamton, NY Aug 2012 – Aug 2015

- Lead developer for one product critical to foreign sales; supported development of four real-time, safety-critical avionics products.
- Led the effort to achieve statement, branch, and MC/DC coverage on C code under VxWorks 653 (DO-178B certification).
- Brought up and debugged custom PowerPC and Intel Single Board Computers; developed modular device drivers used across three products.

SKILLS

Languages & Frameworks: Ruby, Ruby on Rails, JavaScript, React, Java, C

Cloud & Infrastructure: AWS (Aurora, EKS, EC2, OpenSearch, S3, DynamoDB, Kinesis, VPC), Kubernetes, Talos Linux, Cilium, Helm, Docker, Terraform, Linux

Data & Observability: MySQL, PostgreSQL, Sidekiq, DataDog, OpenTelemetry, CircleCI

Compliance: HIPAA, HITRUST (audit logging, PHI handling)

PROJECTS

- 3-node Kubernetes homelab (Talos Linux on Proxmox, HA control plane) with Cilium BGP-peered to the router for L3 pod-to-LAN routing; full GitOps via Argo CD running self-hosted GitLab, Prometheus, and Grafana; ingress via a Pangolin tunnel on AWS EC2.

EDUCATION

State University of New York at Buffalo, *BS in Computer Science* – Buffalo, NY Sept 2008 – May 2012

- UB Robotics – President & Intelligent Ground Vehicle Project Lead (2011-2012); Software Team Lead (2009-2011).