

Candidate

patrykgolabek.dev | [GitHub: PatrykQuantumNomad](https://github.com/PatrykQuantumNomad) | [X: @QuantumMentat](https://twitter.com/QuantumMentat) | [YouTube: @QuantumMentat](https://www.youtube.com/@QuantumMentat)

PROFESSIONAL SUMMARY

Senior Software Engineer and Technical Lead with 17+ years building production systems across healthcare, fintech, and cloud infrastructure, including public sector healthcare platforms at SickKids Hospital. Deep expertise in Python, Linux/Unix systems administration, and cloud-native platform engineering spanning AWS, GCP, and Azure. Proven track record designing and maintaining large-scale data systems — migrated 500M+ medical records from legacy systems and built high-availability backends processing millions of records under HIPAA and PIPEDA compliance. Experienced collaborating with cross-functional engineering and operations teams, developing testing frameworks (BATS, pytest, Playwright), and delivering secure, resilient systems in regulated government and healthcare environments.

TECHNICAL SKILLS

Systems & Cloud Infrastructure: Linux/Unix, Kubernetes (GKE, EKS, AKS, kind), Terraform, Terragrunt, Atlantis, Helm, Google Cloud Platform (Cloud Composer), Amazon Web Services (Lambda, SQS, EKS), DevSpace, Calico, Linkerd, nginx-ingress

Languages & Scripting: Python (FastAPI, Celery, SQLAlchemy, Slack Bolt), Go, Java (Spring Boot), TypeScript (Next.js, Prisma, Zod), Shell scripting (BATS)

Data & Storage: PostgreSQL, Supabase, Redis, Elasticsearch, Apache Kafka, ETL pipelines, data pipelines, workflow orchestration

Testing & DevSecOps: pytest, testcontainers, BATS testing, Vitest, Playwright, GitOps, Cloud Build, GitHub Actions, pre-commit hooks

Observability & Security: Prometheus, Grafana, Loki, Falco, OpenCost, HashiCorp Vault, Keycloak

Data Workflow & Orchestration: Apache Airflow, GCP Cloud Composer

AI/ML: LangGraph, LangChain, LangFlow, OpenAI API, Anthropic API, TensorFlow, Keras (CNN, LSTM), Retrieval-Augmented Generation (RAG), multi-agent orchestration

Frontend: Next.js 16, React 19, TypeScript, Tailwind CSS 4, Angular, shadcn/ui

WORK EXPERIENCE

Co-Founder and CTO — Translucent Computing Inc.

Oct 2010 - Jun 2025

- Pioneered Kubernetes adoption (pre-1.0), delivering multi-cloud systems on AWS, GCP, and Azure
- SickKids Legacy Data Transformation: Migrated 500M+ medical records from 20-year legacy NICU systems
- Built GKE cluster provisioning with Terraform/Terragrunt and GitOps automation via Atlantis
- Deployed full observability stack: Prometheus, Grafana, Loki, Falco, OpenCost with custom Helm charts
- Implemented DevSecOps pipelines with Cloud Build, BATS test suites (kcov coverage), pre-commit hooks
- TEKStack Health: Architected SMART-on-FHIR Health Information Exchange (HIE) platform with ML-driven health summaries
- CBB Connect: Transformed paper-based automotive valuation to cloud-native platform on AWS EKS
- Kubert AI Platform: Open-sourced agentic AI for Kubernetes operations using LangGraph, LangChain, multi-LLM support
- LangFlow Contribution (86 commits): SSO/Keycloak integration, Prometheus/OpenTelemetry monitoring, Docker enhancements
- Slack Bot Platform: Production bot with Python Slack Bolt + FastAPI, Kubernetes deployment, Redis, Prometheus
- Neonatal Sepsis Detection at SickKids: Led CNN+LSTM deep learning research predicting Late-Onset Neonatal Sepsis (LONS) 24 hours before diagnosis
- Wippy Pay (FinTech): Architected Buy Now Pay Later (BNPL) ecosystem with microservices, real-time credit risk analytics, led 4 dev teams
- CALIPER, SSPedi, Brain Tumour Bank: Multi-platform healthcare applications (Spring Boot, Angular, Ionic React)
- Led technical strategy and engineering teams delivering cloud-native platforms in healthcare, fintech, and AI. Secured \$1.2M in IRAP and client funding.

Senior Software Developer — PointClickCare

Jan 2007 - Dec 2012

- Built secure, high-availability Java Spring backend systems for healthcare EHR processing millions of records
- Developed core clinical workflow modules under HIPAA and PIPEDA compliance

Java Developer — SickKids Hospital

Jan 2005 - Dec 2007

- Designed Java/Spring/Struts web applications for pediatric research studies

Senior Full-Stack Engineer — Formsy

Oct 2025 - Feb 2026

- Built 55+ API endpoints with centralized auth middleware, 26-table PostgreSQL schema, Stripe payment processing with Canadian HST compliance, and PDF generation with coordinate-based government form field mapping
- Implemented comprehensive test suite (84+ files: Vitest unit/integration, Playwright E2E with accessibility testing) and CI/CD pipeline via GitHub Actions automating lint, type-check, and Vercel deployment
- Architected full-stack Canadian government form management platform using Next.js 16, React 19, TypeScript (strict), Prisma 7, and Supabase, with enterprise DI architecture (tsyringe) spanning 59K+ lines of production code
- Designed two-party applicant-practitioner workflow with 3-role RBAC, secure token-based email invitations via Resend, digital signature capture, and 10-step wizard with 9 medical condition sub-forms
- Engineered AI-powered form completion agent with OpenRouter and Vercel AI SDK, implementing context-aware suggestions, token budget management, smart response caching, and rate limiting across 17 LLM components

- Designed agentic AI workflows in n8n automating Canadian insurance benefit claims processing
- Integrated AI automation into Next.js/React frontend for seamless claims submission user experience

KEY PROJECTS

- SickKids Legacy Data Transformation: Migrated 500M+ medical records from 20-year legacy NICU systems, transforming data from legacy storage to modern platforms
- TEKStack Health: Architected SMART-on-FHIR Health Information Exchange (HIE) platform with ML-driven health summaries for healthcare data management
- GKE Cluster Provisioning: Built Kubernetes cluster infrastructure with Terraform/Terragrunt and GitOps automation via Atlantis across multi-cloud environments
- DevSecOps Pipelines: Implemented Cloud Build pipelines with BATS test suites (kcov coverage) and pre-commit hooks for automated testing and deployment
- Observability Stack: Deployed Prometheus, Grafana, Loki, Falco, OpenCost with custom Helm charts for system monitoring and reliability
- Formsy Government Platform: Built Canadian government form management platform with 55+ API endpoints, 26-table PostgreSQL schema, and comprehensive test suite (84+ files)

EDUCATION

Bachelor of Engineering, Electrical and Computer Engineering - Toronto Metropolitan University (Ryerson)
Canadian Army, 705 Communication Squadron - Deployed and maintained secure communication infrastructure