

Candidate

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PROFESSIONAL SUMMARY

Senior Software Engineer and Platform Engineering Lead with 17+ years building production systems across government, healthcare, and fintech sectors. Deep expertise in systems administration, software development, and infrastructure automation using Python, Terraform, and Kubernetes across AWS, GCP, and Azure. Proven track record managing large-scale data systems — including migrating 500M+ medical records from legacy systems — with strong focus on secure, compliant environments (HIPAA, PIPEDA). Experienced leading cross-functional engineering teams in collaborative environments, developing testing frameworks (pytest, BATS, Playwright), and delivering resilient, high-performance platforms for regulated industries.

TECHNICAL SKILLS

Systems & Infrastructure: Linux/Unix, Kubernetes (GKE, EKS, AKS, kind), Terraform, Terragrunt, Helm, Calico, Linkerd, nginx-ingress, DevSpace

Platform & Cloud: Google Cloud Platform (Cloud Composer), Amazon Web Services (Lambda, SQS, EKS), Azure Kubernetes Service (AKS), Google Kubernetes Engine (GKE), Amazon Elastic Kubernetes Service (EKS), Vercel

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

Backend Development & Scripting: Python (FastAPI, Celery, SQLAlchemy, Slack Bolt), Go, Java (Spring Boot), TypeScript (Next.js, Prisma, Zod)

Testing & DevSecOps: pytest, BATS testing, testcontainers, Vitest, Playwright, GitOps, Cloud Build, GitHub Actions, Prometheus, Grafana, Loki, Falco, HashiCorp Vault, Keycloak

Observability & Monitoring: Prometheus, Grafana, Loki, OpenTelemetry, OpenCost, Falco

AI/ML & LLM: LangGraph, LangChain, LangFlow, OpenAI API, Anthropic API, Vercel AI SDK, Google Gemini, Ollama, TensorFlow, Keras (CNN, LSTM), Retrieval-Augmented Generation (RAG), multi-agent orchestration

Frontend Development: 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

- SickKids Legacy Data Transformation: Migrated 500M+ medical records from 20-year legacy systems, managing large-scale data synchronization and transformation across complex storage architectures
- Pioneered Kubernetes adoption (pre-1.0), delivering multi-cloud systems on AWS, GCP, and Azure with deep Linux/Unix systems administration expertise
- Built GKE cluster provisioning with Terraform/Terragrunt and GitOps automation via Atlantis
- Implemented DevSecOps pipelines with Cloud Build, BATS test suites (kcov coverage), and pre-commit hooks
- Deployed full observability stack: Prometheus, Grafana, Loki, Falco, OpenCost with custom Helm charts
- 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
- CBB Connect: Transformed paper-based automotive valuation to cloud-native platform on AWS EKS
- TEKStack Health: Architected SMART-on-FHIR Health Information Exchange (HIE) platform with ML-driven health summaries
- Wippy Pay (FinTech): Architected Buy Now Pay Later (BNPL) ecosystem with microservices, real-time credit risk analytics, led 4 dev teams
- Neonatal Sepsis Detection at SickKids: Led CNN+LSTM deep learning research predicting Late-Onset Neonatal Sepsis (LONS) 24 hours before diagnosis
- 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 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

Software Engineer / Agentic AI (Contract) — Benee-fit

Jun 2025 - Sep 2025

- 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

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

KEY PROJECTS

- SickKids Legacy Data Transformation — Migrated 500M+ medical records from 20-year legacy systems, demonstrating large-scale data management and storage migration expertise
- Kubert AI Platform — Open-sourced platform for Kubernetes operations with LangGraph, LangChain, and multi-LLM support, showcasing deep systems engineering
- DevSecOps Pipeline Automation — Built comprehensive testing frameworks with BATS test suites (kcov coverage), pytest, and CI/CD pipelines via Cloud Build and GitHub Actions
- GKE Cluster Provisioning — Terraform/Terragrunt infrastructure with GitOps automation via Atlantis across multi-cloud environments (AWS, GCP, Azure)
- LangFlow Open Source Contribution — 86-commit PR adding SSO/Keycloak integration, Prometheus/OpenTelemetry monitoring, and Docker enhancements (PR #7346)
- Formsy Government Platform — Full-stack Canadian government form management 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