

Dineshkanth Pushparajah

SENIOR SOFTWARE ENGINEER

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SUMMARY

Hands-on software engineer building and scaling full-stack and cloud systems, with recent focus on applied AI/LLM engineering. Most recently Tech Lead at ELL Technologies, where I led technical architecture and delivery for an EdTech platform and its subsidiaries. Previously, at Happly, architected production RAG pipelines, compliance-guarded LLM generation, computer-vision automation, and on-device model distillation for a platform that grew to 84,000+ users and \$1B+ in matched funding opportunities under SOC 2 Type II controls. Fluent across the AI tooling landscape (LangChain, LlamaIndex, vector databases, OpenAI/Anthropic APIs, PyTorch, Hugging Face) and AI-assisted development workflows (Claude Code, Cursor, Codex), with deep full-stack and mobile roots in Go, Python, TypeScript/React/React Native, and cloud infrastructure across AWS and Google Cloud (Terraform/IaC).

CORE SKILLS

AI / ML Engineering: LLM application architecture, Retrieval-Augmented Generation (RAG), LangChain, LlamaIndex, vector search & embeddings (Pinecone, pgvector, Weaviate), OpenAI & Anthropic APIs, prompt & pipeline orchestration, PyTorch, TensorFlow, Hugging Face, model fine-tuning & distillation, predictive modeling, fairness/bias calibration, computer vision, WebGPU on-device inference

AI-Assisted Development: Claude Code, Cursor, OpenAI Codex, AI-augmented code review & debugging workflows

Languages: Go, Python, JavaScript/TypeScript, PHP, SQL, Dart, Swift, Shell

Frameworks & Web: React, React Native, Next.js, Node.js/NestJS, Laravel, Flutter, REST & GraphQL APIs, iOS

Data & Cloud: AWS (EC2, RDS, S3, Lambda), Google Cloud Platform, Infrastructure as Code (Terraform, CloudFormation), PostgreSQL, MySQL, MongoDB, Oracle, Firebase, Docker

Engineering Practice: Scalable system architecture & design, mobile app development, CI/CD pipeline automation, Agile delivery, security & compliance (SOC 2), technical mentoring

EXPERIENCE

Tech Lead, *Everybody Loves Languages Corp.*

Jun 2025 - Jul 2026

- Directed technical architecture and product-delivery strategy for an EdTech company and its subsidiaries (Lingo Learning, joint ventures), reporting directly to the CEO.
- Led modernization of the company's legacy tech stack, and served as tech lead for the team building the company's new mobile app (React Native).
- Led and staffed a technical team of in-house engineers and offshore providers, delivering roadmap features on time and within scope.
- Architected new product-delivery platforms and defined the approach for integrating client-driven feature requirements into the existing software portfolio.
- Built and maintained an analytics and metrics-processing system for learning records; monitored and improved system performance.
- Integrated AI-assisted development tools (Claude Code, Cursor, Codex) into the team's workflow to speed up delivery and reduce time-to-fix on production issues.
- Partnered directly with clients, sales, and account managers to translate business requirements into technical specifications; performed hands-on root-cause analysis and triage to protect delivery timelines.

Founding Engineer, *Happly.AI*

Jun 2021 - May 2025

Co-Founder (grew out of Influence Orbis, where I led engineering)

- Architected and built retrieval-augmented generation (RAG) systems: high-dimensional vector search, adaptive semantic chunking, and cross-lingual EN/FR embedding alignment over heterogeneous document sets.
- Designed and shipped compliance-guarded LLM generation pipelines - multi-model chains combining constraint extraction, intent classification, and grounding validation to enforce factual accuracy, length limits, and eligibility alignment.

- Built computer-vision automation (hybrid vision-DOM field reconciliation via spatial IoU matching) and on-device model distillation for private, sub-second inference via WebGPU.
- Developed temporal-aware predictive scoring models with fairness/bias calibration on historically skewed data.
- Directed the applied-AI research program (NRC IRAP / SR&ED-funded), setting technical direction and staged milestones across LLM systems, retrieval, computer vision, and predictive modeling.
- Adopted AI-assisted development workflows (Claude Code, Cursor, OpenAI Codex) across the engineering team to accelerate delivery velocity and code review turnaround.
- Automated CI/CD pipelines to streamline testing and deployment across the platform's services, reducing manual release effort and error-prone deploys.
- Co-built and scaled the platform to 84,000+ users and 3,000+ funding opportunities (\$1B+ available, \$54M+ completed), operating to SOC 2 Type II standards; owned architecture, security, and engineering hiring/mentoring.
- Under this technical leadership, Happly earned 1st place at DMZ's Black Innovation Summit, a Google for Startups partnership, and the U.S. Ambassador's medal (1st-prize pitch competition).

EARLIER EXPERIENCE

Head of Engineering, *Influence Orbis*

Jul 2020 - Jul 2022

- Owned technology strategy and architecture; led the company's digital platform build-out, cloud infrastructure, and data integrations to support product growth. This venture's team and technology became the foundation for Happly.AI, which I went on to co-found.

Full Stack Engineer, *Tribe Inc.*

Oct 2019 - Apr 2020

- Designed a modular service architecture and hardened backend deployment processes for reliable, error-free releases.

Senior Software Engineer, *Kanguru Digital Agency*

Nov 2017 - Jul 2019

- Led developers and DBAs across web, mobile, and large-screen integrations; built an automated Go/Oracle/MySQL data-sync service integrating with Finastra; migrated hosting to AWS (EC2, RDS, S3).

Head of Engineering, *Artist Intelligence Agency*

Aug 2010 - Aug 2017

- Architected digital infrastructure across four web platforms; built an award-winning artist music-distribution platform ("Best Website," 2012 Dubstep Music Awards).

Full Stack Developer, *NRJ Design Inc.*

Jan 2000 - Aug 2010

- Co-founded a boutique web-development studio; delivered e-commerce platforms and custom CMSs; mentored 20+ junior developers.

EDUCATION & TRAINING

NEXT AI: National AI Venture & Technical Accelerator Program (Canada's leading AI program) | Graduate, 2022

Google for Startups: Alumni Network (via Happly partnership)

Cedarbrae Collegiate Institute: Computer Science Focus, Toronto | 1998

CERTIFICATIONS

Learning React.js | React: Context API Development

COMMUNITY & MENTORSHIP

Active alumnus of NEXT AI and Google for Startups, regularly participating in both programs' events, workshops, and alumni community initiatives. Provide one-on-one coding instruction to high-school and university students; active in startup and tech meetups, mentoring early-career developers and founders.