

KEERTHI NELATURU

Engineering Lead · Blockchain & Digital Assets · Systems Architect

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PROFESSIONAL SUMMARY

Blockchain engineering leader with 16+ years delivering complex technology projects in regulated financial environments. Former **Blockchain Lead at Scotiabank** where I built Mano — a permissioned payment system on private Ethereum with POS integration. Led engineering strategy for a 10,000+ TPS settlement platform at BIS and conducted CBDC research at the Bank of Canada. Proven track record coaching cross-functional teams, managing vendor solutions, and delivering within structured SDLC and governance frameworks. PhD in Computer Engineering (University of Toronto) with published research on smart contract verification.

CORE COMPETENCIES

Blockchain & DLT Architecture, Smart Contracts (Solidity/Move), Digital Currency & CBDC, API & Microservice Design, Team Coaching & Mentoring, Regulated Environment Delivery, Cross-Functional Stakeholder Management, Risk & Compliance Alignment, Vendor Management & SDLC

PROFESSIONAL EXPERIENCE

Blockchain Lead | Scotiabank

Sep 2017 — Aug 2019

Led blockchain strategy and engineering at Scotiabank's Digital Factory, building production payment systems and driving organizational adoption.

- Built Mano — an internal permissioned payment system on private Ethereum with POS integration, used daily for real transactions across the Digital Factory
- Led DLT-based mortgage insurance tracing across multiple financial institutions in collaboration with Aviva Insurance, ensuring transparency and auditability
- Ran blockchain evangelism roadshows across Scotiabank locations, validating use cases with business streams and senior stakeholders
- Operated within Scotiabank's structured SDLC, change management frameworks, and enterprise governance standards; collaborated with AI/ML team on credit card fraud detection

Senior Software Engineer | Trestle

Jan 2026 — Present

Building TrestleAI — an AI-powered construction intelligence platform with document intelligence and integration infrastructure.

- Owning Document Intelligence (AWS Textract), Document Integration (S3/SharePoint/Box), and Email Sync (SendGrid) components end-to-end
- Designed event-driven backend workflows using TypeScript, microservices, and API-first architecture with comprehensive test coverage
- Building integration pipelines connecting construction documents across cloud storage providers with automated classification and extraction

Advisor & Engineering Leader | Bank of International Settlements

Jan 2023 — Dec 2025

Seconded from Bank of Canada. Led engineering strategy for a modular, cloud-native settlement platform and ledger infrastructure.

- Achieved 10,000+ TPS throughput on cloud-native settlement platform with full CI/CD pipelines and observability across multi-region deployments
- Built and mentored cross-functional squads, embedding agile practices and coaching team members toward self-organization
- Partnered with enterprise architects, risk, and operations stakeholders to align engineering with organizational strategy
- Prepared roadmaps aligning cross-team dependencies across multiple central banks; served as judge for the G20 TechSprint

Professor — Blockchain Development | George Brown College

2023 — 2025

Taught in the college's Blockchain Development program, bridging industry experience with academic curriculum.

- Delivered courses on Advanced Smart Contracts, DevOps in Blockchain, and Building Scalable Blockchain Apps
- Designed hands-on labs using Solidity, Hardhat, and CI/CD pipelines to simulate real-world blockchain engineering workflows
- Mentored students on capstone projects involving DeFi protocols, NFT marketplaces, and enterprise DLT integrations

Fintech Researcher — CBDC | Bank of Canada

Apr 2021 — Jan 2023

Researched Central Bank Digital Currency feasibility, evaluating DLT and non-DLT implementation options.

- Led architectural design for the Dual Ledger bond settlement project using wholesale CBDC
- Prepared comprehensive oracle business model comparison informing CBDC implementation strategy
- Evaluated tokenized payment concepts and digital asset infrastructure for central bank deployment

Lead Developer | Aviva — Digital Garage

Jul 2016 — Sep 2017

Led front-end and full-stack development for Aviva's digital insurance products in the innovation lab.

- Built mobile-first insurance application with Guidewire integration serving thousands of policyholders

- Contributed to RBC-Aviva merger insurance quoter — a production system still in active use today
- Collaborated with UX and product teams to iterate on customer-facing flows, reducing quote completion time

SELECTED PROJECTS

Mano (Scotiabank): Permissioned Ethereum payment system with digital wallet and POS integration for daily real transactions.
Cloud-Native Settlement Platform (BIS): 10,000+ TPS modular settlement infrastructure. Kafka, Cassandra, Redis, AKS.
CBDC Dual Ledger (Bank of Canada): Wholesale digital currency bond settlement with oracle business model evaluation.
OpenLibra Protocol: Founding engineer — open-source fork of Facebook's Libra. Consensus, governance, Move smart contracts.
Plebis: AI-augmented governance for Cosmos ecosystems with RAG, LLM summarization, and validator reputation scoring.

TECHNICAL SKILLS

Blockchain: Ethereum, Solidity, Move, Hyperledger, Corda, Quorum, EVM L2 Rollups, Hardhat, ethers.js, web3.js
Languages: TypeScript, JavaScript, Python, Java, C#, Rust, Go
Cloud & Infra: AKS, AWS, GCP, Docker, Kubernetes, Terraform, GitOps, CI/CD
Data: Kafka, Cassandra, PostgreSQL, MongoDB, Redis
APIs: REST, GraphQL, gRPC, ERC-20, ERC-721, ERC-1155
Leadership: System Design, TOGAF, Agile/Scrum, Technical Mentoring, Stakeholder Facilitation

EDUCATION & CERTIFICATIONS

PhD, Computer Engineering — [University of Toronto](#) | Published research on smart contract verification
TOGAF Certified Enterprise Architect | **G20 TechSprint Judge** | **Crypto Chicks Hackathon 2019 Winner**