

CHIEF TECHNOLOGY OFFICER

TECHNOLOGY & PRODUCT LEADER, EX-GOOGLE, EX-MICROSOFT

Senior Technology Executive with proven track record of successfully building & leading engineering teams at top companies such as Microsoft and Google, and founding & growing multiple startups, in SaaS and Blockchain space. Notable success in developing technology strategies & enhancing products to drive growth & deliver organization success. Demonstrated expertise in strategic planning & tech-led product innovations that enable improved product performance and user/customer experiences. Significant technical background in leading introduction of distributed systems, serverless architectures, AI & machine learning, Internet of Things to drive product growth while building scalable, resilient and high-performance teams & engineering platforms.

Experience in both developed and emerging markets, in defining product research & technical strategy, roadmap, product fitment and talent acquisition & retention.

AREAS OF EMPHASIS

- Technology/Product strategy & vision
- Research & design of platforms & protocols to further business and product strategy
- Build agile and responsive organization & engineering practices
- Cloud scale architecture and design
- Team leadership and mentoring
- Product design, launch and operations
- Risk assessment and mitigation
- Talent and partnership development
- Technical breadth & depth across Web3, Cloud, IoT, AI and ML

PROFESSIONAL EXPERIENCE

CROS

2022-Present

CO-FOUNDER & CTO

Founded the early-stage web3 startup to transform ad-infrastructure using web3 and blockchain constructs providing leadership and direction to product and engineering team while focusing on product and tech strategy to meet product-market fit

- **0 to 1:** Led product development and engineering to launch of ad manager and decentralized ad-network on Polygon within 6 months of incorporation.
- Hired and managed a team of 30 engineers, designers and product managers overseeing all aspects of product development and delivery. Established a culture of performance and accountability by coaching managers and team on industry best practices.
- Wrote and published whitepaper on product vision, technical strategy, actively engaged with VCs, angel investors to sell them on the product vision, resulting in pre-seed funding, as well as partnerships with web3 platform players like Polygon, Decentraland and others.

[whitepaper](#) | [product beta](#) | [public repos](#)

BUSSR

2021-Present

CO-FOUNDER & CHIEF TECHNOLOGY OFFICER

Led mobility product transformation to mobility-as-service (MaaS) platform, working with cross-functional leaders to define & own technical vision, product strategy and engineering. Built, developed and led a team of 60 responsible for the full product and technology life cycle from research and innovation through deployment and operation across India, Ukraine and Indonesia.

- Held direct accountability for the vision strategy and execution of new platform and product development along with forging partnerships with technology and service providers. Infused flexibility, scalability and cost-efficiency by leading fully cloud-native development and deployment strategy.
- Championed development of market making SaaS platform and white-label apps: Redesigned legacy backend infrastructure & mobile/web applications that had 50K active users to separate microservice infrastructure while simultaneously modularizing features to support a flexible subscription model
- Directed R&D teams through the ground-up development of new products, including routing and scheduling algorithms, data engineering pipelines, machine learning models.
- Drove vision to execution of IoT enabled fleet operations and fare collection platform for transport and fleet operations.
- Introduced ML based route optimization, scheduling and driving-behavior features for fleet operators with data sources such as Open Street Maps, Google Transit Feed Specs using Google Cloud Platform, machine learning and other OR tools.
- Setup engineering culture for agility and ownership using agile development methodologies and practices such as DevOps, ML Ops, feature flags, A/B tests etc.

GOOGLE CLOUD

2020

PRINCIPAL ARCHITECT

Lead cloud transformative projects for Reliance, [ICICI Group](#), HDFC, tier1 retail customers using Google Cloud platform while interfacing with Google engineering, partners and customer stakeholders resulting in substantial revenue growth from \$2M to \$6M+.

- Increased cloud revenue by 40% in selective accounts by leading the design & development of new IP offerings for connected vehicle, retail, finance, supply chain & logistics optimization using ML models & big data platform from GCP.
- Introduced cloud native and serverless culture at customer organizations to streamline and enhance development processes; transitioned to lean, cost effective cloud development practices, using Anthos, Kubernetes, Firebase, Cloud Build/Run and other GCP services.
- Accelerated product and solution development on GCP for customers, from quarters to weeks, by creating a strong engineering base with boutique partner firms and Google engineering teams.
- Built technical architecture blueprints and prototypes on hybrid workloads using Kubernetes, Anthos, Apigee, Dataflow, Pubsub, Big query, IoT and AI/ML services resulting in various app modernization, data migration and new development projects on GCP. Drove the design and delivery of such projects while managing distributed teams across Google, partner and customer organizations.

MICROSOFT

2005-2019

CHIEF ARCHITECT (2014 – 2019)

Executive level technical leadership from Microsoft to selective global customers providing tech strategy,, hands-on research and engineering for complex solutions including designing and executing programs for capability building and readiness in emerging technologies.

- Lead Architect on Tata Motors Connected Vehicle Platform on Azure Cloud while managing the design & delivery of project with global delivery teams. Architected and built platforms and services to realize the [Mobility Services Platform for Tata Motors](#) vision encompassing passenger and commercial vehicles positioning them to launch B2B and B2C mobility services around ride sharing, fleet management, last mile delivery etc.
- Lead design & development of numerous Connected Vehicles & Mobility ecosystems and platforms for Global Automakers managing product engineering teams from Microsoft & customer. This includes connected vehicle platform for Ford operational in US and China for 1million+ vehicles and a [connected vehicle platform for Renault Nissan](#) being primed for global deployment in 7 regions.
- Drove product research & capability building in emerging technologies like Internet of Things (IoT) and Advance Analytics. Design & developed IoT and Machine Learning workshops to help train 400+ engineers on IoT Solutions with hands-on exercises, Threat Model for IoT, Makers Lab to kick start grass-root level innovation

program etc. helping generate multi-million-dollar revenue globally while keeping customer satisfaction levels at an all-time high.

OTHERS (2000 – 2014)

- Microsoft (2005 – 2014) – Various roles in product engineering & delivery organization.
- GrapeCity (2000 – 2005) – Various roles in product engineering organization (India & Japan)

ORGANIZATION CAPABILITY BUILDING

- ❖ Hired for, built and mentored an IoT Center of Excellence within Global Delivery practice comprising of Architects, engineers, consultants and product managers.
- ❖ Design and drove participation for specific community activities, Microsoft Academy for College Hires (MACH), Technical Leadership Development Program (TLDP) and internship programs and community outreach with colleges.
- ❖ Setup Architecture Review Board and helped defined processes, guidance and technical framework for Technical Quality Assurance assessment and evaluation for cloud-scale and IoT-scale products.

TECHNICAL SKILLS

- ❖ **Cloud Platforms:** Google Cloud Platform and Microsoft Azure covering storage, compute, container services, bigdata, IoT, Machine Learning, DevOps, MLOps services, and others.
- ❖ **LLMs:** GPT3.5, Alpaca 2.0, FLAN T5, Langchain, Agent GPT
- ❖ **Frameworks and Languages:** Nodejs, JavaScript, C#, C++, .NET, Go, Python, Nest, React
- ❖ **Web3:** Solidity, Ethereum, Polygon, Hardhat, Ethers, IPFS
- ❖ **Others:** Kafka, Storm, Spark, MongoDB, HBase, Redis, Elastic, PostgreSQL, REST, GRPC, Protobuf and others

EDUCATION BACKGROUND

MASTERS IN COMPUTER SCIENCE	1996-1999	Institute of Management Technology Ghaziabad, India
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PAPERS AND CERTIFICATIONS

Decentralized Ad-Infrastructure

A decentralized, tamper-proof ledger and at scale consensus building algorithms that serve as the bedrock of blockchain and Web3, are the right ingredients to bring transparency and trust into the digital advertising ecosystem while generating value for all the participants of the system including creators and consumers. This whitepaper goes into details on design and specs for such an infrastructure built with web3 primitives.

RECENT CERTIFICATIONS (more [here](#))

- 🌟 [Generative AI with Large Language Models](#) (DeepLearning.ai)
- 🌟 [Neural Networks for Machine Learning Certificate Course](#) (University of Toronto – Geoff Hinton).
- 🌟 IASA Foundation and Associate & TOGAF 9 Foundation, Certified Scrum Master