

Dinesh Appavoo

Founder @ Hypersona (Rocket Propulsion)
— Founder @ Bean Inc. (Digital Healthcare Twin)
ex-Affirm, Twitter and Amazon

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🌐 dineshappavoo.com
📍 New York City Metropolitan Area or Remote

Summary

I'm currently building and researching across two deep tech frontiers: advanced rocket propulsion for point-to-point Earth transportation and digital human twin technology.

Under Hypersona, I launched [HyperX](#), a tool for designing Full-Flow Staged Combustion rocket engines. At Bean Technology Inc., I'm developing prototypes to digitally model human biology for accelerated drug discovery.

Previously, I spent a decade building and scaling products at Affirm, Twitter, and AWS—launching products used by millions. I'm driven by the intersection of software, aerospace, and biology to accelerate innovation in healthcare and space.

Core Skills

- Rocket Engineering
- Physics
- Software Development
- Product Management
- Engineering Leadership
- Deep Tech Innovation

Experience

Founder — Hypersona

November 2024 - Present

New York City Metropolitan Area

Leading Hypersona Inc., a deep-tech initiative exploring rocket-based point-to-point Earth transportation.

- Built and launched [HyperX](#), an interactive platform for engineers, students, and enthusiasts to design Full-Flow Staged Combustion (FFSC) rocket engines
- Conducting research into thermodynamics, regenerative cooling, turbomachinery, and mission planning
- Writing a white paper and blog series on designing FFSC engines from scratch
- Hypersona Inc. is in pre-registration phase; development is active

Founder — Bean

February 2025 - Present

New York City Metropolitan Area

Founder of Bean, an early-stage initiative focused on building a digital healthcare twin to accelerate healthcare research and drug discovery.

- Developing a prototype to predict and simulate human cells for drug discovery
- Foundational research is in progress on digital twin technology for human biology
- Website: bean.inc
- Bean Inc. is an unregistered entity currently in prototype and research phase

Engineering Manager (Product Focused) — Affirm

March 2020 - December 2023

San Francisco Bay Area

Built Affirm Card, a new card product from Affirm.

- Launched product features for the card product since inception (from a separate app for GTM to converging the card product to the main Affirm app)
- Scaled the product and focused on acquisition, activation, engagement/retention, GTM initiatives and other core areas for best consumer experience and improved unit economics

Board of Directors, Marketing — RRRcomputer.org June 2020 - November 2021

San Francisco Bay Area

Led marketing and strategic planning initiatives to solve the digital divide problem.

- Ran campaigns via email/social media to raise funding
- Led rebranding initiatives and collaborated with mainstream media to showcase work globally

Engineering — Twitter September 2016 - March 2020

San Francisco Bay Area

Built Twitter user experience and platform products—including services to support timeline, messaging, user authentication and more.

Engineering — Amazon Web Services June 2015 - September 2016

Greater Seattle Area

Helped launch new products—ALB, ELB—in different regions/data centers and scaled existing products to support millions of machines.

Operations Research and Analytics Intern — BNSF Railway May 2014 - August 2014

Dallas/Fort Worth Area

Research/MVP on rail path optimization algorithm for waybill/shipment management and rail dispatchers.

Engineering — Verizon June 2011 - July 2013

India

Built new products to connect central offices via the network and to share Verizon network with other providers—including AT&T/Sprint—on demand.

Founder & CEO — Labineer February 2010 - May 2011

India

Founded and grew a start-up to provide quality health care equipment at competitive prices from different manufacturers. Launched a marketplace website to compare prices/features.

Software Engineer — Accenture December 2009 - August 2010

India

Built APIs to process consumer usage data for a telecom company in Australia and launched new plans to existing and new consumers to improve product growth and sales.

Education

The University of Texas at Dallas

Master of Science (MS), Computer Science

Coimbatore Institute of Technology

Bachelor of Technology (BTech)

Professional Development

MIT Professional Education - Space Economy (February 2025)

Dale Carnegie Training - Effective Communication and Human Relations (February 2025)