Vallieswaran Vairavan (vallies)



Personal details

Vallieswaran Vairavan (vallies)

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Bengaluru Karnataka

June 7, 1983

Male

India

vallies.me

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Skills

Gradle

Build Tools

IT Strategy

Digital Transformation

Business Consulting

Design Specifications

Redux.js

MapReduce

Amazon Web Services (AWS)

Communication

Computer Science

Git

Docker Products

React.js

Data Science

Design Patterns

Web 2.0

Profile

- **Engineering Leadership at Wayfair:** Lead ten Partner Home engineering teams, advancing supplier self-service, platform simplification, and AI-native delivery.
- Founder at Neuu Labs: Led the company to secure $3M in Series A funding at a $9M pre-money valuation.
- Innovation in Retail Tech: Advanced Automated Retail, Machine Vision, Grab and Go technologies.
- Data-Driven Solutions: Utilized user digital footprints for credit ratings, and personalised consumer experiences.
- Digital Tools Integration: Implemented GPS, geolocation, and image processing for enhanced transparency in business.
- Social Advocacy: Contributed to early education for economically underprivileged children.

Education

Master of Technology (M.Tech.), IT Jan 2004 - Dec 2006

Indian Institute of Technology, Bombay

Bachelor of Engineering (B.E.), Information Technology Jan 2000 - Dec 2004

Sona College of Technology, Salem

Ph. D (Dropout after 4 years) Aug 2006 - Sep 2011

Indian Institute of Technology, Bombay

Dropout after focusing on full time work in startup

Certificates

MIT's Approach to Design Thinking Aug 2017

Employment

Associate Director Engineering November 2026 - Present

Wayfair Global Technology Private Limited

The Indian subsidiary and Technology Development Centre (TDC) of Wayfair, the U.S.-based e-commerce retailer of home goods and furniture.

Partner Home Leadership Profile

- Lead all ten Partner Home engineering teams, focusing on supplier self-service, legacy platform simplification, the Partner Home experience, and AI-native practices across the engineering lifecycle.
- Led AI SDLC and AI tools adoption across the Super POD, moving from a team of 95+ people, including 25% contractors, to 45 full-time engineers without slowing delivery.
- Under my leadership, teams delivered Order Export, Pickup Management, supplier payment and inventory improvements, streamlined onboarding, the Developer Portal, and expanded media support.
- Increased engagement through the homepage refresh and enabled suppliers to integrate more independently through the Developer Portal.

Architecture

ERP

Data Structures

Java

Hadoop

Distributed Systems

Algorithms

Scalability

Core Java

Linux

Shell Scripting

Java Enterprise Edition

Perl

C++

MySQL

Unix

C

Hibernate

Servlets

REST

JSP

JUnit

Spring

Web Services

Architectures

Eclipse

PHP

Product Design

SQL

JavaScript

SOA

E-commerce

Agile Methodologies

Software Development

Service-Oriented Architecture (SOA)

Spring Framework

Representational State Transfer (REST)

Languages

English

- Advanced AI-native engineering through HAWK, which analysed hundreds of bugs and helped close 60% without human intervention each week.
- Introduced “BMAD SDLC”: AI-generated designs required less than 5% change during review, and AI-generated sprint estimates matched manual estimates.
- Established a simplification strategy for the Partner Home platform and strengthened incident response, quality, security, and operational readiness.
- Currently focused on making AI-native delivery the default.

Sabbatical & Tech Advisory January 2024 - October 2026

Exploring What's Next big Idea, Bengaluru, Karnataka, India

Personal growth and social contribution:

- Dedicated time to social causes, focusing on early education initiatives for economically underprivileged children established a NGO with 80G with a portion of earnings from Flipkart ESOPs.
- Partnered with a former colleague on experimental side projects, exploring new avenues and innovative concepts outside of the traditional business framework in AGRI TECH and Education TECH for greater good.

Technical POCs with Friends

- **Soul AI:** Builds technology for AI training and evaluation, enabling experts to label data, review model outputs, and test AI agents. Uses golden datasets and human-in-the-loop approval workflows to evaluate experts and help AI labs and businesses improve reliability across coding, finance, healthcare, and operations.
- **Assured:** Automates healthcare provider credentialing, insurance enrolment, licensing, and compliance monitoring with AI agents. Verifies records, submits applications, and manages follow-ups so providers can start seeing patients and billing sooner.
- **Creator Stride:** Provides an LLM-based customer engagement platform for YouTube creators at every stage. Helps creators discover opportunities, engage audiences, and grow their channels.
- **NEET Exam Prep:** Generates AI-based NEET practice test papers with conceptual analysis and feedback. Supports students with an LLM-based chatbot for doubt clarification.
- **Poster Gully:** Uses generative AI and vision models to create posters based on themes such as motivation, success, and quotes. Creates personalised marathon posters with race details and motivational quotes, using Strava Connect to verify completed runs as proof of achievement. Marathon posters.

Founder Jan 2018 - Present

Neuu Labs Private Limited, Bengaluru Area, India

- Spearheaded the successful Seed round funding of $3M at a pre-money valuation of $9M, with LightSpeed as the lead investor.
- Pioneered innovative solutions in Automated Retail and Machine Vision, significantly enhancing supply chain efficiency and on-demand inventory management.
- Developed advanced systems for "Grab and Go" retail experiences, streamlining customer interactions with cutting-edge technology.
- Led the initiative in utilizing user digital footprints to establish credible credit ratings, offering personalized food and activity recommendations based on user purchase behavior analysis.
- Championed the integration of digital tools like GPS, geolocation, video and image processing, and time-stamped encoding to bolster transparency in transactions and create legally binding documents.
- Focused on revolutionising retail and consumer experience through technological advancements and data-driven strategies.

Hindi

Tamil

Hobbies

Gardening

Volunteering

aquascaping

Sr VP Engineering Apr 2015 - Jan 2017

Embibe.com (Indiavidual Learning), Bengaluru Area, India

- Building most powerful, personalised continuous evaluation system for education in India. Solving the problem of poor connectivity and continuous testing for 2nd and 3rd tire cities. Making AI based personalised Learning possible offline in mobile App.
- Embibe raised $180 million USD in strategic investment from Reliance jio

VP & Head of Engineering Oct 2013 - Mar 2015

Omuni (Arvind Internet), Bangalore Urban, Karnataka, India

- Hired a team for 60+ Engineers in short span of 6 months and launched creyate.com : Leading menswear brand for custom-clothing in India in formalwear & casual wear. Strong presence in India & Japan,
- Creyate won Smart Use of Technology E -Retailer of the Year Award in 2015, when it was launched and 1 year old.
- Setting up team for 3D rendering & simulation using Maya & Windows cloud.
- setup top notch front end team do custom 3D rendering in Web-browser
- setup up strong backend engineering team and integration of web with factory process for error free customisation and logistics operation of e-commerce and store kiosk billing integration.
- built CI & CD team with continues testing and deployment in AWS
- we developed eventual consistency Master Master Data Centre deployments in store and mobile stylist laptops (Mini version) to improve our web studio speeds (to provide Seamless experience in 3G network and broadbands)
- setup up hired process for freshers form NITC and Pune university campuses and ramped them to become strong engineers

Tech Lead Jan 2011 - Sep 2013

Flipkart.com, Bengaluru Area, India

One of the earliest employees I was incharge of core Product including

- Flipkart's Internal MVC architecture in php we scaled it from 3k request per sec scaling to 150k request per sec
- A/B testing frame work,
- implementing Php connection pooling with interprocess shared memory communication with java pre caching agent for web needs,
- php serialised object caching in mem-cache to avoid decode time in scale
- session management,
- Click stream tracking,
- conversion tracking,
- Big data targeting system,
- metrics, and monitoring systems.

Senior Software Engineer Dec 2009 - Dec 2010

Flipkart.com, Bengaluru Area, India

- Developed the website core platform and affiliates.
- converted Flipkart website from monolith php to Thrift based Micro service architecture supporting multiple platform java, php, python, scala, ruby and go

Founder Nov 2007 - Aug 2010

SYNC Technologies, Bengaluru Area, India

Founded the company to explore the opportunity of working on several projects ranging from

- android based surveying device,
- automated vehicle tracking,
- production module for Microsoft Business suite for rubber and tea manufacturing
- reverse engineering, COBOL system to Microsoft Business suit via my reserach work of Functional programming to OO system.

Technical Analyst Jun 2007 - Nov 2007

Versata, Bengaluru Area, India

- Developed the code for the Business Rules Management Engine.

Software Developer Jul 2006 - Jun 2007

Webaroo, Mumbai Area, India

- Developed Cluster Management System.

Reasearch work in IITB Jan 2004 - Dec 2010

Indian Institute of Technology, Bombay, Mumbai Area, India

- Wrote my thesis on Reverse Engineering Design and Design patterns from Code Model to Model Conversion.
- Cobol to Java Migration
- filed two Patents for these tech solutions of auto code migration form procedural code to service oriented architecture, Main frame to Hadoop