

APPILI VAMSI KRISHNA

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Tirupati, AP, India

SUMMARY

Senior Backend-Focused Software Engineer with 4+ years building scalable APIs, distributed services, and data-layer optimizations across healthcare, government, and security domains. Ranked #1 individual contributor across the engineering team at Leap Metrics; delivered 145+ Jira issues and 378 PRs over 16 months while owning critical backend modules end-to-end. Strong in Node.js, GraphQL, MongoDB, AWS (Lambda, RDS, CloudFormation), microservices, and event-driven architecture, with a deep-tech foundation (M.Tech, IIT Madras) and a track record of measurable performance gains.

TECHNICAL SKILLS

Backend: Node.js, Express, GraphQL, REST APIs

Languages: TypeScript, JavaScript, Python

Databases: MongoDB (Atlas), PostgreSQL, DynamoDB, SQL

Cloud / DevOps: AWS (Lambda, EC2, API Gateway, DynamoDB, Cognito, RDS, CloudWatch, CloudFormation, IAM, Route 53), GCP, Cloudflare Workers, Docker, Jenkins, CI/CD

Architecture: Microservices, Event-Driven Architecture, Distributed Systems

Testing: Jest (unit + integration)

Frontend: React, Next.js, Angular, Redux, Tanstack Tables

Tools & Other: Keycloak, Pendo, Git, Firebase

PROFESSIONAL EXPERIENCE

Nfinity Solutions Pvt Ltd

Dec 2024 – Mar 2026

Senior Consultant Software Engineer (Client: Leap Metrics, Healthcare Platform, USA)

Hyderabad, India (Hybrid)

- Ranked #1 individual contributor across the engineering team in PRs, commits, and code changes; delivered 145+ Jira issues and 378 PRs over 16 months on a healthcare platform.
- Optimized API data fetching with field-level projection (e.g., 20 of 70 fields), cutting payload size and improving performance by 60%; eliminated redundant API calls via efficient data-fetching and caching patterns.
- Owned end-to-end delivery of the Attestation Project – reason codes, history tracking, and automated email alerts – shipped to production with zero post-launch incidents.
- Developed a MongoDB Atlas multiword search utility reused across the platform; integrated Pendo + Keycloak for behavior tracking and custom in-app messaging.
- Resolved high-priority production bugs within 24 hours, maintaining platform stability throughout tenure.
- Built backend support for Control Center and Playground dashboards (LOB, Risk Acuity, Priority Population, Program views) and the Needs Planning workflow (multi-step care-plan flows with real-time validation).

Dexian

Jan 2023 – Nov 2023

Senior Software Engineer

Chennai, India

- Architected and led full-stack projects on Node.js, Express, MongoDB, and AWS for diverse government and enterprise clients; designed services and APIs underpinning multiple deliverables.
- Led the backend (Express) of the internal Opportunity Management Portal used by senior employees to track project pipelines; also delivered the Angular frontend.
- Delivered Appian RPA + IDP proofs-of-concept for client PDF processing and structured data extraction.
- Shipped full-stack apps including the Bihar Government Digital Farmer Services portal (React + Node) and Catalyst / Document Merger (Next.js + TypeScript).

Safe Security

Apr 2022 – Dec 2022

Software Development Engineer I

Remote

- Developed and maintained RESTful APIs with Node.js + TypeScript; authored unit and integration tests with Jest to keep coverage high.
- Worked across AWS (IAM, EC2, RDS, CloudWatch, Lambda, DynamoDB, Cognito) and authored CloudFormation infrastructure templates; configured Docker + Jenkins CI/CD pipelines for repeatable deployments.
- Built React functional pages with Redux + React Hooks for state management in an Agile delivery environment.

EDUCATION

Indian Institute of Technology Madras: Aug 2020 – Jun 2022, Chennai, India

M.Tech, Aerospace Engineering – CGPA 9.47/10

- Thesis – Development of a Vision-Guided Aerially Launched Short-Range Missile (deep learning for trajectory prediction on FPGA hardware).

Madras Institute of Technology: Aug 2016 – Apr 2020, Chennai, India

B.E., Aeronautical Engineering – GPA 8.15/10

- Thesis – Structural Analysis of Agricultural UAV.

SELECTED PROJECTS

AstroData AI: React, Express, AWS, DigitalOcean, ML astrodata.app

- Sole architect and developer of a full-stack platform with a custom LLM that learns and validates predictive rules, calculating event probabilities through neural-network-powered analysis. Released v1.0 on Oct 21, 2024.
- Companion services – `api.astrodata.network` (Express), `ai.astrodata.network` (Express + ML), and Cloudflare Workers integration.

npm i astrodata: JavaScript, Python npmjs.com/package/astrodata

- Published NPM package providing advanced astrology calculations with simple integration into modern JS/TS applications.

Planetary Ephemeris: Next.js, Express planetary-ephemeris.appili.dev

- Dynamic tool for calculating and visualizing planetary positions; backend powered by Swiss Ephemeris data (project for which Krishna is a GitHub maintainer).

FREELANCE & ENTREPRENEURSHIP

Sevida Labs Apr 2026

Independent Contractor, Full-Stack Developer (Client: Leap Metrics, USA) *Hyderabad, India (Hybrid)*

- Continued full-stack development on the Leap Metrics healthcare platform under an independent contract; delivered UI enhancements and production bug fixes.

Crazy GreenLife LLP Dec 2023 – Oct 2024

Co-Founder *Chennai, India*

- Co-founded sustainable-fashion venture (incorporated Apr 8, 2024); incubated at NIFT Chennai through the Fashion Entrepreneurship program (1-year Executive PG Diploma).

ACHIEVEMENTS & RECOGNITION

- **GitHub Maintainer:** Swiss Ephemeris repository, a core resource for online ephemeris systems.
- **Teaching Assistant:** M.Tech course AS5030, IIT Madras (2021).
- **FFE Leadership Award:** recipient in 2018 and 2019 for leadership and academic excellence.

CERTIFICATIONS

Creative Problem Solving

University of Minnesota – *Coursera* – 2020 – Certificate. Learned techniques and strategies for innovative problem-solving, enhancing creativity and effective decision-making.

Machine Learning

Stanford University – *Coursera* – 2021 – Certificate. Gained expertise in machine learning algorithms and principles, enhancing skills in data-driven decision-making and predictive analytics.

LANGUAGES

English (Native), Telugu (Native), Tamil (Advanced), Hindi (Intermediate)