

# APPILI VAMSI KRISHNA

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Tirupati, AP, India

## SUMMARY

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Senior Full-Stack Developer with 4+ years building production web platforms 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 modules end-to-end. Strong in React, Node.js, TypeScript, GraphQL, MongoDB, and AWS, with a deep-tech foundation (M.Tech, IIT Madras) and a track record of measurable performance gains and rapid bug resolution.

## TECHNICAL SKILLS

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**Languages:** TypeScript, JavaScript, Python

**Frontend:** React, Next.js, Angular, Redux, React Hooks, Tanstack Tables, React-Router

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

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

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

**Architecture:** Microservices, Event-Driven Architecture, Distributed Systems

**Testing:** Jest (unit + integration), TestCafé

**Tools & Other:** Keycloak, Pendo, Git, Firebase, Appian RPA, IDP, Mendix, PowerApps, OutSystems, FPGA, TensorFlow

## PROFESSIONAL EXPERIENCE

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### 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.
- Led the Needs Planning UI: multi-step flows (need / goal / intervention / care plan), tree-structure tables with inline date editing and real-time validation.
- Built Control Center and Playground dashboards with interactive visualizations (pie / bar charts) for LOB, Risk Acuity, Priority Population, and Program views.
- Refactored the entire frontend wholesale – adopted Tanstack Tables and built a reusable common-component ecosystem; upgraded application-wide CSS for performance and UI uniformity.
- 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.

### Dexian

Jan 2023 – Nov 2023

*Senior Software Engineer*

*Chennai, India*

- Architected and led full-stack and LCNC projects across React, Next.js, Angular, Node.js, Express, MongoDB, and AWS for diverse government and enterprise clients.
- Built React-based frontend with interactive heat maps and charts for the Bihar Government Digital Farmer Services portal.
- Led both frontend (Angular) and backend (Express) for an internal Opportunity Management Portal used by senior employees to track project pipelines.
- Shipped Catalyst (Next.js + TypeScript) – screen recording, screenshot editing, and export to presentations / PDFs – and Document Merger – combining PDFs, images, and Excel files into a single PDF.
- Delivered Appian RPA + IDP proofs-of-concept for client PDF processing and data extraction; built a PowerApps Site Inspection Mobile App.

### 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.
- Designed React functional pages with Redux + React Hooks for state management and React-Router for navigation in an Agile delivery environment.
- Worked across AWS (IAM, EC2, RDS, CloudWatch) and authored CloudFormation infrastructure templates; configured Docker + Jenkins CI/CD pipelines for repeatable deployments.

## EDUCATION

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**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

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**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).

**Appili Dev CDN:** Angular, Express, Firebase, MongoDB cdn.appili.dev

- Self-hosted content delivery network for secure file upload and management.

## FREELANCE & ENTREPRENEURSHIP

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**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

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- **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

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### 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

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