Vamsi Aila

He

Senior Engineer @ Xebia (Instruqt) | Node.js & MongoDB Specialist | Cloud & DevOps

Backend & Cloud-Native Engineer | Microservices | Kubernetes | DevOps

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PROFESSIONAL SUMMARY

Senior Engineer at Xebia and former Technical Lead with 7+ years designing high-availability backend systems and scalable microservices. Deep expertise in Node.js and MongoDB, with strong hands-on experience in Go, TypeScript, and SQL. Built high-performance APIs using Express.js, designed event-driven systems with NATS, and improved inter-service communication with gRPC. Experienced in cloud-native deployments across Azure and GCP using Kubernetes, Docker, and Terraform, and interested in applying AI engineering practices to enhance system intelligence and scale high-performing engineering teams.

- 7 years of experience

WORK EXPERIENCE

Senior Engineer

May 2026 – Present

Xebia CMIT Software Services Private Limited | Full time, Hyderabad, India

- Project: Working on the Instruqt project, a hands-on lab and sandbox platform (details under Projects).
- Scope: Full-stack engineering with a DevOps focus across Go-based microservices, Terraform-managed cloud sandbox infrastructure and production release workflows.

xebia.com

Technical Lead

Jan 2025 – May 2026

Rapidops Solutions Private Limited | Full time, Ahmedabad, India

- Leadership: Led a 5-person engineering team, running code reviews and mentoring to uphold database performance and strict system design standards.
- Architecture: Owned the high-availability microservices platform for Moxfive, with 10+ mission-critical services on Azure Private Kubernetes (AKS).
- Cloud Strategy: Cut infrastructure provisioning time by 60% with reusable Terraform modules, and reduced the external attack surface by 40% using Azure Key Vault and Private Endpoints.

Senior Software Engineer

Dec 2020 – Dec 2024

Rapidops Solutions Private Limited | Full time, Ahmedabad, India

- Team Leadership: Scaled the engineering team from 3 to 5 members, directing technical delivery and code quality across multiple core platforms before promotion to Technical Lead.
- Client Delivery: Delivered backend and DevOps work across Moxfive, Harristeeter, Esterre and Ready To Pay (details under Projects).
- Data Reliability: Managed a self-hosted 5-node MongoDB replica set, set up disaster recovery nodes and automated daily backups for 100% data durability.
- Recognition: Won the "High Achiever Product Engineering" award (Dec 2021).

Software Engineer

Dec 2018 – Nov 2020

Rapidops Solutions Private Limited | Full time, Ahmedabad, India

- Harristeeter (Scaling): Wrote high-performance RESTful APIs for core retail features, including collaborative shopping lists and fresh food ordering, serving 1M+ customers at 99.9% uptime.
- Platform Integrations: Built secure API connections with 5 major third-party enterprise platforms, including MyWebGrocer and Brandify.
- Task Automation: Modernized legacy Node.js codebases to ES6 and wrote 10 automated cron jobs for critical data synchronization and real-time push notifications.

SKILLS

Node.js, Go (Golang), TypeScript, JavaScript, Bash, MongoDB, MySQL, PostgreSQL, Redis, Microservices, REST APIs, GraphQL, gRPC, NATS, Kafka, Azure, Kubernetes (AKS), Docker, Helm, Terraform (IaC), CI/CD, GitHub Actions, Nginx, Git, OAuth, Stripe Integration, IoT, Smart lock Integration, Github Copilot, VS Code, Webstorm

EDUCATION

BSc (Computer Science)

Jul 2015 – Jun 2018

Monad University | Computer Science, Hapur, UP, India

Completed BSc (Computer Science) at Monad University, Hapur, UP (Jul 2015–Jun 2018). Graduated with 66.16%, providing the academic foundation that underpins my work in backend and cloud-native engineering.

LANGUAGES

English, Telugu, Hindi

PROJECTS

Instruqt

May 2026 – Present

Full-stack Engineer (DevOps focus) | Work, In progress

As a Full-stack Engineer (DevOps focus) on Instruqt, a hands-on lab and sandbox platform, my work covers the full stack with an emphasis on operational reliability. Work spans Go-based microservices, Terraform-managed cloud sandbox infrastructure, and production release workflows; responsibilities include developing and maintaining backend services, authoring infrastructure-as-code, and managing release processes for the platform.

Contributions include building and evolving Go services, creating reusable Terraform modules for reproducible sandboxes, shaping CI/CD and production release automation, and contributing front-end pieces in React. Also integrating Claude and Codex into platform tooling to support developer workflows. This ongoing work focuses on ensuring reliable sandbox provisioning and repeatable, safe production rollouts.

Go, Terraform, Microservices, Claude, Codex, React

instruqt.com

Moxfive

Technical Lead / Architect | Work, Completed

Designed and owned the high-availability microservices platform for Moxfive with 10+ mission-critical services on Azure Private Kubernetes (AKS); used Node.js, Golang and MongoDB Atlas and created reusable Terraform modules to speed provisioning and improve security.

Node.js, Golang, MongoDB Atlas, Azure AKS, Terraform

moxfive.com

Esterre
Backend Engineer | Work

Built RESTful APIs for three property management applications using NestJS and PostgreSQL; integrated Stripe for paid services while maintaining ACID compliance, and automated smart lock access via Twilio.

NestJS, PostgreSQL, Stripe, Twilio

Ready To Pay
Internal Tooling / Backend | Work

Developed five private Node.js SDKs as NPM packages to standardize authentication and built API clients for Worldpay and Punchh.

Node.js, NPM, Worldpay, Punchh

Harristeeter
Backend Engineer | Work

Wrote high-performance RESTful APIs for core retail features (collaborative shopping lists, fresh food ordering), scaling to serve 1M+ customers at 99.9% uptime; led backend transition to Kroger's CMS ensuring zero downtime and 100% data preservation.

Node.js, REST APIs

CERTIFICATIONS

Claude Certified Associate – Foundations (CCAO-F) Oct 2026 – Oct 2027
Anthropic
Credential ID: d8d5c778-a3e2-456a-8c10-d4441145f81c
credly.com/badges/d8d5c778-a3e2-456a-8c10-d4441145f81c

Claude Certified Developer – Foundations (CCDV-F) Aug 2026 – Aug 2027
Anthropic
Credential ID: 99ffd567-9583-43d3-ac16-1de8ee0cd4fc
credly.com/badges/99ffd567-9583-43d3-ac16-1de8ee0cd4fc

MongoDB Certified Associate Atlas Administrator Dec 2025
MongoDB
Credential ID: MDBj1v71ds167 learn.mongodb.com/c/w-ExLsFEQ36wngaqq99dcA

MongoDB Certified DBA Associate (C100DBA) Jul 2025
MongoDB
Credential ID: MDB7fxmzfi72g learn.mongodb.com/c/QtKurJOpRWqgQx5YYV6rcA

CRUD Operations in MongoDB (Skill Badge) Jul 2025
MongoDB
Credential ID: fc882ecc-a9fe-449b-9b93-960f442226c4
credly.com/badges/fc882ecc-a9fe-449b-9b93-960f442226c4

HashiCorp Certified: Terraform Associate (003) Jun 2025 – Jun 2027
HashiCorp
Credential ID: fc12f769-9726-4d05-9ee7-a133f62740b6
credly.com/badges/fc12f769-9726-4d05-9ee7-a133f62740b6

MongoDB Certified Developer, Associate (C100DEV) Oct 2023
MongoDB
Credential ID: MDBq30y4f3axv learn.mongodb.com/c/cWX-nSrVRgCu8qZ7MD-XhQ

Professional Certificate Program in Blockchain Mar 2023

Indian Institute of Technology Kanpur

Credential ID: 69356479 success.simplilearn.com/d1f349a3-adfb-4bf4-b2be-fcec25000c43