

Vat Raghavan

Engineering Team Lead · Backend Systems Expert

20+ years building and leading backend systems across fintech, AI & media, healthcare IoT, energy, defense, and gaming. Former CTO. Polyglot engineer fluent in 8+ languages who picks up new stacks fast.

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Remote

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, Golang, Perl, Java, C/C++, Erlang
Backend & API	Node.js, Express, REST API design, JSON Schema, OpenAPI/Swagger, Microservices
Data Storage	PostgreSQL, MongoDB, MySQL, Kafka, query optimization, schema design
DevOps & Cloud	AWS, GCP, Docker, Kubernetes, CI/CD, GitHub Actions, Jenkins, Travis CI
AI & Automation	ElevenLabs, D-ID, Midjourney, YouTube Data API, After Effects scripting
Leadership	Team lead (8 engineers), remote team management, architecture, code review, Agile/Kanban/Scrum, stakeholder management

WORK EXPERIENCE

Founding Engineer

October 2022 – August 2024 · Remote

UpResTech

AI-driven media automation and content production tooling.

- Built automated YouTube video upload and claims management tools via the YouTube Data API.
- Designed and implemented an AI-based video upscaling toolchain end-to-end.
- Owned DevOps, growth engineering, and infrastructure tasks across the stack.
- Trained staff on internal tooling and operational systems.

STACK TypeScript, Node.js, Python, YouTube Data API, ElevenLabs, D-ID, Midjourney, After Effects, Adobe Premiere

Independent Consulting

2020 – 2022 · Remote

Various Clients

- Delivered backend engineering and systems consulting for clients across sectors.
- Designed and built an IVR platform for the energy sector integrating Twilio Studio, Autopilot, Salesforce, Stripe, and MySQL, with real-time CI/CD via GitHub Actions.

STACK Node.js, Twilio, SendGrid, Salesforce, MySQL, GitHub Actions

CTO & Co-Founder

2016 – 2018 · San Mateo, CA

izi.ai

AI-based virtual assistant for team conference call collaboration and sharing.

- Architected and built the full SaaS product from scratch; deployed to dozens of beta customers on AWS.
- Led and managed international consultant teams (India, Romania) on backend features and React frontend.
- Integrated Slack, Asana, Trello, JIRA, and Stripe into a proprietary REST API.

STACK Node.js, Express, PostgreSQL, AWS, JSON Schema, React, Agile/Kanban

Lead Backend Engineer

2015 – 2016 · San Francisco, CA

NimaSensor (formerly 6SensorLabs)

iOS-first SaaS platform for a proprietary gluten and peanut allergy sensor device.

- Owned the full backend: database schema design, API contract definition, and Node.js implementation.
- Collaborated directly with CEO, PM, Designer, and Mobile Engineer to iterate on product features.
- Built features enabling customers to share and search sensor test results from restaurants nationwide.

STACK Node.js, Express, PostgreSQL, AWS, Swagger, Travis CI

Technical Team Lead — API

2013 – 2015 · San Francisco, CA

Tilt.com

Social payments platform allowing users to pool funds collaboratively.

- Led and managed a team of eight remote engineers delivering API features consistently ahead of schedule.
- Spearheaded full rewrite of the payments layer, seamlessly migrating 5M+ user accounts from Balanced Payments to Stripe Marketplaces with zero downtime.
- Championed a performance rewrite of the notifications layer, achieving over 1000% throughput improvement.
- Oversaw all API architecture, design, and code reviews across the team.

STACK Perl/Dancer, PostgreSQL, AWS, Jenkins, JIRA, Agile/Kanban

EARLIER CAREER

2012 – 2014 E*Trade Financial · 2008 – 2011 Bloomberg L.P. · 2007 – 2008 Meggitt Training Systems · 2004 – 2007 Scientific Games · 2003 – 2005 CNM Networks

EDUCATION

BS in Computer Information Systems

Addison, IL

DeVry University

BS in Real Time Interactive Simulation (incomplete)

Redmond, WA

DigiPen Institute of Technology