Yadu Krishnan G

Senior Backend Engineer · Python · Node.js · JavaScript · AWS · Azure · Distributed Systems

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EU Blue Card holder (Poland), no sponsorship or work permit needed · Available from January 2027

PROFESSIONAL SUMMARY

Senior Backend Engineer with **9+ years** of experience designing, building and scaling distributed systems in Python and Node.js. Led technical delivery of Sky UK's broadband onboarding platform, serving **500K+ customers** and processing **8K+ activations per day** on AWS. Deep expertise in event-driven microservices, message queues, caching, high-concurrency services and cloud migrations across AWS and Azure. Trusted technical leader who mentors engineers, works closely with product and operations, and ships reliable systems across telecom, insurance, consumer and marketing technology. Currently building LLM-based AI agents that boost engineering team productivity.

TECHNICAL SKILLS

Languages	Python, JavaScript, TypeScript, Node.js, SQL
Backend	FastAPI, Django, Express.js, NestJS, Celery, REST APIs, Microservices
System Design	Event-Driven Architecture, Distributed Systems, Message Queues & Streaming (Kafka, SQS, SNS, RabbitMQ), Caching (Redis), High-Concurrency Services, Legacy Migrations
AWS	Lambda, API Gateway, SQS, SNS, Cognito, DocumentDB, ElastiCache, CloudWatch, Managed Grafana, Route 53, S3, Terraform
AWS Networking	VPC, Subnets, Route Tables, NAT Gateways, Internet Gateways, Security Groups, NACLs, Direct Connect
Azure	Azure DevOps (CI/CD), Data Factory, Databricks, Synapse, Cosmos DB, Microsoft Foundry
Databases	PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch
DevOps	Docker, Kubernetes, Terraform, Git, CI/CD Pipelines, Infrastructure as Code
AI / LLM	LLM-Based AI Agents, Microsoft Foundry, AI-Assisted Development

PROFESSIONAL EXPERIENCE

Senior Software Engineer
May 2025 - Present

Heineken Global Shared Services · Kraków, Poland

- Designed and built **high-concurrency microservices** for Salesforce Marketing Cloud, including a custom Viber messaging activity, using message queues and Redis to send messages at scale without overloading downstream systems.
- Restructured a legacy marketing automation system and designed a **phased, low-risk migration plan** to a new Azure environment.
- Built an **LLM-based AI agent** in Microsoft Foundry that answers engineering questions from team documentation, cutting time spent searching for information.
- Developed data pipelines on **Azure Databricks** orchestrated with Azure Data Factory, with automated delivery through Azure DevOps CI/CD.
- Mentored junior developers through code reviews and system design discussions.

Technical Project Lead

Oct 2021 - May 2025

L&T Technology Services - Client: Sky UK · Kraków, Poland

- Led design and delivery of a scalable **broadband onboarding platform serving 500K+ customers**.
- Architected event-driven backend microservices processing **8K+ broadband and VoIP activations per day** on AWS (Lambda, SQS, SNS, API Gateway, Cognito).
- **Fully automated customer activation** by integrating provisioning with Tata EMS, Akamai and internal Sky platforms.
- Managed infrastructure as code with **Terraform** and ran production services on **Kubernetes**.
- Partnered with product, QA and operations teams to ship secure, cloud-native releases.

Software Engineer

Jan 2020 - Feb 2021

Ensuredit (ICE Insurance) · Bengaluru, India

- Built microservices and APIs integrating **multiple insurance providers into one platform** used by agents across India.
- Automated data extraction and scheduled jobs on AWS with Node.js, Python, Redis and Beanstalkd.

Python Developer

Feb 2019 - Jan 2020

Tarams Technologies - Gist App · Bengaluru, India

- Improved product matching and search for a social shopping app that reads purchase receipts from email.
- Built backend services with Django, PostgreSQL, RabbitMQ, Celery and Docker.

Development Engineer

Oct 2017 - Feb 2019

Scrawler Technologies - Social Animal · Chennai, India

- Built **Facebook Analyzer**, a product for searching pages and posts and analysing audience engagement.
- Developed data collection microservices for social media APIs using Node.js, Elasticsearch, Redis and MySQL.

Software Engineering Intern

2016 - 2017

Synapse Systems · Bengaluru, India

- Built IoT monitoring applications in C# and Java.

SELECTED SYSTEM DESIGN PROJECTS

- **Telecom Activation Platform (Sky UK):** event-driven AWS design with SQS, SNS and Lambda reliably processing 8K+ activations a day, with retries and automated provisioning across external partners.
- **High-Concurrency Messaging (Heineken):** queue-based microservices with Redis delivering marketing messages at scale while protecting downstream systems.
- **Legacy-to-Cloud Migration (Heineken):** broke down a legacy system and planned a safe, step-by-step move to a new Azure environment.
- **Multi-Provider Integration (ICE Insurance):** one API layer over many insurance providers, so agents could compare and sell from a single platform.

EDUCATION

Bachelor of Technology (B.Tech)
Nehru College of Engineering and Research Centre, Kerala, India
2012 - 2016

LANGUAGES

English - Professional
Malayalam - Native