

Vijayanand Sankarasubramanian

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Software Architect & Leader

Visionary architect with profound expertise and relentless pursuit of excellence forging the backbone of technological evolution.

Cornerstone of technological advancement, balancing deep technical prowess, strategic business acumen, and solid leadership qualities to set the trajectory for an organization's future in the tech landscape.

Influential senior technologist with 25+ years of experience pioneering the creation of scalable distributed business applications, robust data platforms, and complex microservice architectures.

Expert in shaping the technical direction and engineering culture within an organization, cultivating high-performing engineering and product teams from scratch, and driving the development and dissemination of innovative technologies.

TECHNICAL SKILLS

Industry Knowledge: Technical Planning & Strategy | Team Building & Leadership | Product Development | Project Management | Software Development & Engineering | Software Architecture | Data Structures & Algorithms | Microservices | Cloud Computing | Web Services | Distributed Systems | Enterprise Architecture | Commerce Systems | Fintech | Agile Methodologies | CI/CD Practices

Programming Languages/Technologies: Python | C/C++ | Java | AWS | AWS Lambda | AWS DynamoDB | REST | Hadoop | MapReduce

PROFESSIONAL EXPERIENCE

Rivian Inc

2020 – 2024

PRINCIPAL ENGINEER

Founding Member and Architect for business platform and shared services team to lead the architecture, design, and implementation of various microservices supporting enterprise technology.

- In collaboration with the core engineering team, spearheaded the technological groundwork for platform's first order management microservice, selecting AWS Lambda and Python to rapidly deploy the initial services without DevOps support.
- Led the creation of a suite of shared microservices for domains like order management, vehicle services, customer engagement, product catalog, and payments, coding initial versions and establishing both the software and the team, resulting in 30+ AWS Lambda-based microservices.
- Standardized services with principal engineers, leading to the establishment of a foundational inner source repository and a search service that now serves as a reference model for the entire digital technology organization.
- Enhanced search capabilities and evaluated alternative technologies for storage and computing, resulting in a strategic guide that outlines a proposal for various technological improvements and options for scaling the current set of services. Additionally, collaborated on outlining the pros and cons of using Kubernetes compared to AWS Lambda.
- Pinpointed critical discrepancies between commerce services and manufacturing systems, leading to an integrated architecture that enhances inventory management and aligns manufacturing with sales demand.

LinkedIn Inc

2018 – 2019

SENIOR STAFF SOFTWARE ENGINEER

Architected and engineered for the commerce platform, providing technical leadership, and setting the direction for best practices and innovation within the software engineering domain.

- Enhanced commerce systems' scalability and flow management by co-designing and assisting in the coding of a custom Java workflow engine alongside a senior software engineer.
- Devised an architecture to enhance the monitoring and traceability of commerce ecosystem, integrating improved logging and the ELK stack for visibility, analytics, and increased production resilience.

Visa Inc

2011 – 2017

Software Architect (2015 – 2017)

Built projects related to payments platform infrastructure and services for the merchant and acquirer processing group, ensuring the software structure aligns with business requirements and provides a scalable, maintainable foundation for development teams.

- Developed a design for a unified logging, monitoring, and alerts platform, utilizing the ELK stack and Graphite for the rearchitecture of the Cybersource payment platform.

Software Architect/Head of Architecture Team, Playspan Group (2011 – 2014)

Enhanced architectural capabilities by leading a compact team of architects for UPay2 product of Playspan, delivering successful projects such as a system for A/B testing, a Notification Infrastructure, and a Split tender for Payments.

- Designed and constructed a next-generation wallet engine for Visa Checkout, incorporating Playspan technology.
- Evaluated MongoDB as a potential technology of choice for a payment profile engine that could handle the 100+ alternate payment methods supported by the Playspan UPay2 platform.

ADDITIONAL EXPERIENCE

EdCast Inc

Director of Engineering

Established and directed high-performing engineering teams across various locations as the Lead for an early-stage Knowledge Cloud business, overseeing product development, quality assurance, and DevOps practices.

- Expanded EdCast Inc's B2B business by assembling a robust team of 15 engineers across the USA and India, which led to a revenue increase of \$500K and a surge in user base from 200 to 150,000.
- Boosted productivity by implementing a two-week sprint and scrum model for an AWS-based SAAS service, optimizing development practices with agile methodologies.

Yahoo Inc

Engineering Manager

Guided engineering team in product development, aligning technical objectives with business goals.

- Established a team of nine professionals, including six developers and three QA engineers, to create a Hadoop-based data platform for managing search infrastructure.

Synopsys Inc | Cadence Design Systems Inc

Senior Development Manager/Software Engineer

Led the design and development of cutting-edge physical design automation tools for ASIC and FPGA design.

- Advanced the field of physical design automation by developing specialized algorithms for circuit partitioning and leading a team of engineers in this endeavor.

EDUCATION & CREDENTIALS

Swift 5 Essential Training Certification | LinkedIn Learning | 2022

Master of Science (MS), Computer Engineering | University of Cincinnati

Bachelor of Engineering (B.Eng.), Electronics & Communication Engineering | Indian Institute of Technology (IIT)