
Sateesh Kumar

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Bangalore, India

ABOUT ME

- Over two decades of proven expertise in Architecture, Design, Development and Delivery of Complex, High Scale, Distributed, and Mission Critical business applications spanning FinTech, Ecommerce, Travel, Mortgage & AdTech
- Highly motivated engineer in a constant pursuit of engineering excellence. Thoroughly hands-on till date with polyglot full-stack technologies.
- Avid Learner – constantly learning and relearning on Edx, Coursera and Stanford's SCPD platforms.
- Detail Oriented, Methodical, Data Driven, Algorithmically, and Mathematically Inclined.
- Worked in diverse environments – Large Enterprises, Startups, & Independent Contracting positions, collaborating with geographically distributed teams.
- Love Indian Classical Music, Running, Reading and making sense out of seminal papers in Computer Science.

COMPETENCIES

- Technology Leadership – Architecture, Domain Modelling, Engineering Strategy, Platform Modernization, SSDLC, Security, DevOps, Developer Productivity
- Service Oriented Architecture, Microservices, Modular Monoliths
- Distributed and Highly Available Applications
- Cloud Native Applications – On Prem Cloud, AWS, GCP
- Swift and efficient execution to turn ideas to prototypes and prototypes to production ready systems.
- Full-Stack Hands On Development – Product Features, PoCs/Prototypes, Tooling for developer productivity
- GenAI to boost team's and personal productivity

EXPERIENCE

Visa Inc, Bangalore - *Lead Software Engineer*

2021 - PRESENT

At Visa, I am a part of the VisaDirect product development team. VisaDirect is a cross-border money movement solution. Below are my key contributions and achievements:

- Made key contributions to Architecture, Design & Handson Development of various platform services, conforming to Visa standards of high availability, scalability and security.
- Lead product development efforts for critical business domains – Ledger, Liquidity Management, FX, Compliance & Reporting. Delivered a vast set of features with high quality over a short period of time. Took end-to-end ownership from ideation with product partners to production deployment.
- Platform Modernization – Spearheaded uplifting the core monolithic platform from decades old legacy stack to modern containerized cloud-native microservices.
- Contributed to platform integration strategy for seamless interoperability across Visa acquired money movement products/solutions.
- Mentored junior and mid-level engineers, delivering 25% productivity boost through adoption of best practices in Design, Coding, Reviews, Fully automated developer local setup, on-demand test environment provisioning, automated testing, and automated code generators.
- Contributed to platform's Test Strategy, to improve productivity by authoring intuitive and reliable tests without needing to write a lot of code.
- Integrated GenAI based workflows into SSDLC.

RedAwning Inc, Bangalore - *Software Development Manager*

2015 - 2021

RedAwning Inc. is a Vacation Rental marketplace, based in San Francisco. I joined RedAwning from VaycayHero Inf, as part of an acquisition in 2016. Both are Y-Combinator incubated companies. Below are my key contributions and achievements:

- I was one of the founding engineers at VaycayHero Inc. Developed the product grounds up in a very short period of time. I contributed to significant growth to the business before VaycayHero Inc was acquired by RedAwning Inc.
- Built a team of engineers at the Bangalore office. Conducted recruitment drives. Trained and mentored junior engineers.
- Led platform infrastructure consolidation effort to move from monoliths and VM based microservices to AWS Lambdas.
- Led geographically distributed teams across India, San Francisco, Seattle, and Indonesia.

- Responsible for 45+ platform services. Key services include: Booking Service, Pricing Engine, Search Engine, Supplier & Channel Partner integration services.
- Contributed to operational efficiency by reducing manual efforts by leveraging classical Machine Learning & Deep Learning models.

Tavant Technologies, Bangalore & US - *Senior Software Engineer*

2004 - 2015

Key contributions and achievements:

- Product Development: Lead teams to design and develop Mortgage Origination & Mortgage Pricing Engine systems.
- Product Implementation: Worked with large financial institutions in the US, to customize and implement Mortgage Origination & Pricing Engine systems, both as OnPrem and SaaS offerings.
- Architecture Consulting: Collaborate with customers' business teams to ideate and develop solutions. Contribute to Solution & Technical Architecture. Participate in pre-sales author RFPs, develop prototypes of envisioned solutions.

EDUCATION

BMS College Of Engineering, Bangalore University

Bachelor of Engineering in Information Technology

Edx & Coursera

My curiosity keeps me a student for life. I am constantly learning, relearning on edX and Coursera.

Below are subset of course certificates:

1. [MIT MicroMasters Programme in Statistics and Data Science](#) - a set of five rigorous courses. My course record is at <https://credentials.edx.org/records/programs/shared/bf5ca77e69e94a40ad9e2e6b74eee3ad/>
 - a. Completed "6.431x: Probability - The Science of Uncertainty and Data". Verified certificate at <https://courses.edx.org/certificates/ecb2ac9e70354b848a00196348461653>
 - b. Completed "18.6501x: Fundamentals of Statistics". Verified certificate at <https://courses.edx.org/certificates/ed55474665d44e3ba5cc3ff3e8ec92d4>
 - c. Completed "6.86x: Machine Learning". Verified certificate at <https://courses.edx.org/certificates/54a0917b3b5647c8b628c8f4e0aaf825>

2. Mathematics for Machine Learning - verified certificate at <https://www.coursera.org/account/accomplishments/specialization/SDBU5PRJFGVF>
3. Probabilistic Graphical Models Specialization - verified certificate at <https://coursera.org/share/a1fd4b0a0bcdeb4d0d441c1982b35edb>

Appendix

A. Technology Expertise

Programming Languages	Java, Python, Golang, Scala, JavaScript, TypeScript and Non-systems programming in C, C++
Scripting/Automation	Python, Gradle, AWS Cli, Boto, Shell, Perl
Databases	MySQL, Oracle, PostgreSQL, Cassandra, MongoDB, DynamoDB, RedShift
Messaging Systems	Kafka, RabbitMQ, SQS, SNS, WebSphere MQ, Sonic MQ
CI/CD	Jenkins, TeamCity, AWS CodeDeploy
Web Technologies	SpringBoot, Tomcat, Jetty, Wicket, SpringWeb MVC, JSP, JSF
UI Technologies	Angular, React
Performance/Monitoring	DynaTrace, AppDynamics, AWS CloudWatch, DataDog
AWS Stack	Lambda, EC2, RDS, DynamoDB, RedShift, S3, Route 53, CloudFront, CloudFormation, EMR, SQS, SNS, ElasticCache, API Gateway, CloudWatch Logs, CodeDeploy, AWS Cli
Big Data	Spark, Hadoop/EMR, Hive
ML & AI	GenAI: ChatGPT, GitHub Copilot, LLAMA, RAG Pre processing, Training and Inferring via Classical Machine Learning, Deep Learning models.
Security	OWASP, AWS KMS, AWS IAM, Azure SSO, Forgerock, Checkmarx, Sonatype Nexus, Blackduck, Hashicorp Vault