

AVINASH ERUPAKA

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Professional Summary

For the past 10+ years, I've worked as a technology leader and multi cloud (AWS, Azure, OCI) certified solutions architect, designing and integrating software applications and solving business problems in a variety of industries including electronics and sensing, finance, transportation, life sciences, and consumer packaged goods (CPG/FMCG). I've led large teams and created enterprise-scale cloud native applications that are fast, responsive, intuitive, secure, and robust. For the front end, I am proficient in React.js, Redux, Bootstrap, and Material Design, and for the backend, I am proficient in Java, JS, Node.js, Python, Scala, and Clojure. I've built large-scale microservice ecosystems using a variety of patterns, and I'm very familiar with scaling and securing them. Capable of working, leading a variety of cloud environments, including public, private, and hybrid. Data Science, computer vision, and AI/ML are all examples of data science. An incoming EMBA candidate.

Skills

Functional Programming	Enterprise Architecture	AuthN, AuthZ
Java	AWS, Azure, GCP, OCI	SAST, DAST
JavaScript	Deal with Data Volume, Velocity and Variety.	Application Security
Scala	Apache Kafka	IoT, Zero trust networks
Python	DevSecOps	API Design
Node.js	Hadoop, Spark	Automated Testing
Spring	IoT, Blockchain	Design, Engineering principles
Web technologies	Distributed Systems	Big Data principles, management
Mobile Development	Event Driven Architectures	Unix, Linux
Microservices	HVHA Applications	Agile, Lean, XP
SQL and NoSQL Databases	Docker, Kubernetes	Data Science, Machine learning
Distributed Computing	Performance tuning	Business Strategy
Scalability, Availability		Budget Management

Work History

Platform Architect & Integration Manager (Associate Director) – Employer: Bayer U.S. LLC.

Creve Coeur, MO | Oct 2020 – Current

- Manage the vision, strategy, design and deployment of global, complex, large-scale distributed systems leveraging PaaS, SaaS and IaaS, public, private & hybrid cloud paradigms.
- Build, lead multi-continent, interdisciplinary engineering teams, provide strategy, process, and procedural best practices for innovative product supply solutions.
- Built and managed offshore teams of 15+ cloud engineers supporting several developments.
- Drove application portfolio rationalization and target architecture strategy programs.
- Provided technology, architectural guidance for multiple high profile, multi-million dollar projects like Smart factory, E2E PS data hub etc.
- Worked with several groups like engineering, CSRM, OT security and cross divisions to design secured IT-OT architectural approaches, practices and integration.
- Defined technology blueprints, operational governance, compliance, EA principles, and best practices for robust solutions design.
- Responsible for setting up 24x7x365 cloud infrastructure, operations framework, governing KPI's, SLA's and metrics against industry benchmarks and standards.

- Define current, target state architectures, and rationalize Capex and Opex costs; appropriate value for investments, in turn, unlocking differentiating potential, competitive advantage and business acceleration.
- Coordinate with corporate enterprise architecture, cloud, infrastructure, and security teams to ensure that Bayer standards are met with respect to supply platform applications.
- Initiate, guide, finalize RFPs for new cloud based, SaaS, COTS and PaaS products.
- Create overall technical architecture, integration principles and guidance to ensure effective data flows across various platforms.
- Establish API based data fabric ecosystems for democratization of data and acceleration of digital capabilities.
- Managing technical roadmaps, change, IT assets, data catalogs, documentation for quality support, reduced RPO and RTO.
- Part of corporate strategy team championing framework, culture that is innovative and forward thinking.

Senior Software Developer – (Full time)

Employer: Bayer U.S. LLC.

Creve Coeur, MO | Aug 2018 – Sep 2020

Senior Software Developer – (Contractor)

Employer: Lead IT Corporation.

Creve Coeur, MO | Jan 2017 – Aug 2018

- Lead Full Stack Software Developer with a focus on DevOps and agile test-driven development, leading multiple products for Monsanto Company's product platforms.
- Evangelized Agile, DevSecOps, domain driven event based microservices using Kubernetes, developer productivity tools and various other AWS technologies, for building Cloud and mobile first applications suite.
- Architected large scale, cloud native distributed event driven microservices for handling billion transactions a month with complex integrations.
- Lead 6 teams of 30+ developers on Cloud, DevSecOps maturity assessment session.
- Performed in the capacity of a technical champion, cloud infrastructure admin and DevSecOps practice lead helping internal engineering community.
- Architected and built world class cloud ecosystem with Automation-first approach.
- Provide architectural mentorship for system and service design to improve security, scalability, reliability, and flexibility to suite of cloud native applications.
- Developed modular web, mobile applications suites using React, Redux, JavaScript, CSS, Scala and Node.js for manufacturing, marketing like outcome-based pricing, IoT hub, etc.
- Help with roadmap, planning, LOE, resource estimates, brainstorm on complex business problems and delivering working software in an iterative process.
- Setting up and maintaining our data layer, with DB tech such as PostGres, DynamoDB.
- Performed technical evaluation for code quality, security issues, database schema scalability, availability, workflow, usability and performance.
- Lead various cross functional and cross continent efforts, achieving quantifiable results.
- Gave various internal talks on emerging tech and helped engineering teams scale up.
- Lead APM platform identification effort for division and established datadog APM.
- Formed and lead technical councils guarding technology and architectural sanctity of Bayer enterprise applications.
- Coached ELD's and lead technical interviews making sure we are sourcing right talent.

Senior Software Engineer (Contractor) – Enterprise Rent-A-Car

Employer: Lead IT Corporation.

Weldon Spring, MO | 2014 – 2017

Products:

Pricing Services:

- Lead pricing services team which is a stack of 100+ SOAP and Rest based webservice that serve as a backbone for Enterprise Rent-A-Car's rental business. These services are consumed both internally and externally serving about 3 billion transactions per month.
- Primarily responsible for design and development of technical specifications, architecture, new client onboarding, availability, scalability, performance and resiliency for the core services with 99% uptime including DR plan.
- Lead a team of 10+ engineers from development, QA and support standpoint.
- From tech stack standpoint we used Java J2EE, Spring based backend with an Oracle DB.
- Lead migration to cloud, including architecture, infrastructure, and deployment.
- Leveraged Jenkins for CI/CD & deploying application to both internal Datacenter, AWS
- Utilized Dynatrace for APM and Splunk for log aggregation and visualization.
- Developed regression test suite to verify services health before deploying to production.

Rental Segmentation:

- Rental Segmentation is an initiative that EHI started to solve a business problem of "Increase sales by beating competition – Higher Adoption".
- This project involved the collection of real-time rates of competitors like Avis, Budget, etc, and run these rates through a proprietary pricing model that outputs competitive pricing specific to a location or even at competing stores level. This initiative yielded a ~33% sales increase in the first year of going live.
- From a tech stack standpoint, we used AWS, Apache Kafka, Akka Http, Mongo DB, Jenkins and splunk.
- Instrumental in adopting new tools, technologies, practices like React JS, Apache Kafka, AWS, Micro Services, Functional programming, Mob programming and Agile practices.

Software Developer (Contractor) – Bank of America

Employer: Indus Valley Consultants.

Austin, TX | 2013 – 2014

- Responsible for building a stack of web applications serving different corporate clients.
- Set up online payments with e-signatures, email scheduling, and PDF form creation.
- Application stack consisted of JSP's for front end, java-based spring mvc for backend and Microsoft SQL server.
- Managed application deployment, uptime and server management using Vmware and Amazon cloud services.
- Applied ILM policies for different group of data to analyze how data can be deleted without impacting the application.
- Developed generic offline & online stored procedures for archiving & purging data.

Graduate Research Assistant – Wright State University

Employer: Wright State University.

Dayton, OH | 2012 – 2013

- Developed and maintained internal university websites like alumni connect, international student portals and several student government applications.
- Implemented MVC architecture using spring eco system technologies, Java and Hibernate (Spring DAO) and used JSP, HTML and CSS for front end.
- Published REST API's to fetch data from Elastic Search clusters to return variety of information like organization histories, student records etc.
- Built REST API that streams data from different channels (Facebook, email's etc.), creates real-time events and pushing them to student volunteers who assist in student pick up and on boarding.
- Redesigned Indian Student association website with more fluid and modern layout.
- Test new software packages and see if they can be used for our application.

Software Engineer
MBR Informatics

Hyderabad, India | 2011 – 2012

- Developed Web application and IoT apps for various clients.
 - Hardware design (microcontrollers, sensors, gateways) based on client requirement.
 - Performed device/chip I/O level testing and capturing metrics for benchmarking.
 - Built fresh user interfaces using HTML, CSS, javascript in turn publishing many reusable client libraries for other teams.
 - Built SOAP & REST based API's to be consumed by various client's internal and external.
- Participated in Code migration and resolving code conflicts in various versions.

Education

Executive MBA – Class of April 2022

Quantic School of Business and Technology - Remote

Master of Science: Electrical Engineering, 2013

Wright State University – Fairborn, OH

Bachelor of Technology: Electronics and Communication Engineering, 2012

Jawaharlal Nehru Technological University – Hyderabad, India

Training & Certifications

Name	Year	Issuer
AWS Certified Data Specialty	2021	Amazon Web Services (AWS)
Oracle Cloud Architect Associate	2021	Oracle Cloud Infrastructure (OCI)
ITIL	2021	LinkedIn
Supply Chain Logistics	2020	Rutgers University
Supply Chain Operations	2020	Rutgers University
AI for Everyone	2020	deeplearning.ai
Foundations of Business Strategy	2020	University of Virginia
AWS Certified Solutions Architect	2020	Amazon Web Services (AWS)
IBM Blockchain Essentials	2018	IBM
Data Structure and Algorithms in Python	2018	edX - MITx
AWS Certified Developer	2017	Amazon Web Services (AWS)
Big Data & Hadoop Developer	2015	Edureka
Certified Professional Java SE 6 Programmer	2012	Oracle

Accomplishments

- BBOY Gold LIFE award for organizing a “50 Ways to fight Bias” training
- BBOY Gold LIFE award for running a successful hackathon for Unitedway campaign
- BBOY Gold LIFE award for outstanding performance towards OBP & other initiatives.
- Received “Value Award” and “Global Dominance Award” as a team for Product Characterization application (Global product part of Monsanto's PLCM pipeline)
- Received POB (Pat on the Back) from Business group for providing a solution to business problem and introducing new programming practices like Mob-Programming (at Enterprise Rent-A-Car)

Volunteer Experience

- Mathematics Tutor (Kids under "No Child Left Behind Act of 2001, USA"), TutorCo, 2011
- President Indian Student Association, Wright State University, 2012
- Instructor @ YES Program (Software Engineering), Saint Louis Science Center, 2015