

PANDU RANGA VITAL. ANUMULA

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SUMMARY

Information Technology Leader / Architect with over 18+ years of experience in building distributed platforms, platform engineering, site reliability engineering, performance engineering, architecture and development. Specialized in cloud migration, design and developing APIs, micro services, frameworks, system automation tools for observability of high volume and high availability platforms. Enjoy building and leading global agile teams to advance technology solutions and provide best customer experience.

CORE COMPETENCIES

- ◆ Cloud Migration (OpenShift)
- ◆ API Design & Development
- ◆ Machine Learning/ AI Ops
- ◆ Cloud Infrastructure Setup
- ◆ Enterprise Architecture
- ◆ Site Reliability Engineering
- ◆ Dev Ops / CI-CD Automation
- ◆ Security Engineering
- ◆ Full Stack Engineering

PROFESSIONAL EXPERIENCE

American Express (2008 to till date)

As **Lead Technical Architect / Senior Engineer**, responsible for

- Review product requirements and assist in translating into features/user stories
- Support initiatives and operations for our key customers/partners of Mobile & Web Engineering
- Documents design specifications, installation instructions, and other system information
- Ensure solutions address scalability, security, availability, and maintainability needs
- Learn new technologies and promote the adoption of frameworks that deliver customer value
- Develop proof of concepts and critical software application components
- Software quality governance and team mentoring for multiple teams
- Create and review technical requirements and translate into platform enablers
- Provides advice on project costs, designs, concepts, and changes

Achievements

- Conceptualized, Architected the solution and Led the development of **Machine Learning** based Ops platform for **Anomaly Detection, Predictive Monitoring** and **Self-healing**
- Defined **API Strategy** for Mobile & Web Engineering applications and Led the development of core **High Volume APIs** used by AmericanExpress.com
- Defined the Strategy to optimize the bubble cost of **Cloud Migration**, estimated Infrastructure footprint and led the cost benefit analysis
- Conceptualized and developed **Cloud Migration** accelerators, enabled factory approach for migration and Led the team responsible for Mobile & Web Engineering applications migration from legacy platform to **OpenShift**
- Conceptualized, Architected the solution and Led the development of enterprise frameworks to improve **Observability** - Logging and Tracing framework based on **Kafka** streaming with Publish-Subscribe model, **Real User Metrics (RUM)** based on Browser Performance APIs
- Conceptualized, Architected the solution and Led the development of utility and service for in-flight **PII data encryption, decryption** based on Voltage **HSM**

- Conceptualized, Architected the solution and Led the development of tools to improve **Availability – Feature Toggle**, Message Signing **Certificate Management**, **Canary Deployments**
- **Proof of Concepts**, Infrastructure setup for **Customer Experience Management** tools (**Tealeaf**, **Glass box**) and Big data tools like **Kafka**, **Spark**, **Splunk**. Built tools/ utilities to customize for American Express
- Define the Strategy and Framework for **Performance Testing** and Conceptualized, Architected the solution and Led the development of tools for **Test Data Management**
- Led the development of several **High-Volume** services, worked in major **third-party integrations** like **Apple Pay**, **Amazon Catalog**, **Movable Inc**
- Led the development of portal which governs American Express **brand** guidelines

Application Architect at Rent Grow (2007)

- Led the delivery of multiple Applicant Screening products, and integrations with all Credit Bureaus
- Developed multiple BIRT reports for business team

Application Architect at Apple Vacations (2006)

- Led the migration of all Apple Vacation products from Saber socket-based interfaces to **SOAP** Web Services
- Led the development of a **Content Management** Solution for near real time updates

Senior Associate at Cognizant Technology Solutions (2003 – 2006)

Worked as an **Application Architect** at **American Express**

- Led the migration of Picasso (Application screening, underwriting and Fulfillment for Small Business Cards) platform (consisting more than 50 applications) to American Express data center
- Developed Content Management Solution for card benefits updates on AmericanExpress.com
- Developed Small Business Account Summary Dashboard, Small Business Early Engagement and Business Centurion applications

Senior Software Developer at Seranova India (2000 – 2002)

Worked as **Senior Software Developer** at **Toys'R'Us**

- Developed Multi-threaded budget processing engine
- Developed multi lingual portal for scenario-based budgeting portal

Worked as **Software Developer** at **Click4Care**

- Developed health care portal
- Developed Multi-threaded rules engine that processes 3 million patients' data

TECHNOLOGY EXPERIENCE

Certifications

- Sun Certified Enterprise Architect
- Harvard Certification in Leadership Excellence (American Express Sponsored)
- OpenShift V3 Administration

- TOGAF
- Cloud Native Computing Foundation

Analytics - Machine Learning with R & Python, Kafka, Spark, HBase, Splunk, ELK, Zipkin, Jeager

Middleware - JavaEE, NodeJS, VertX, Spring Boot, IBM MQ, Data Power, APIGEE

Front End - HTML5, CSS3, Java Script, React, React Native

Databases - DB2, Mongo, Couchbase, Postgres, Cassandra

CI/CD - Maven, Gradle, GIT, XL Release