RUBENS GOMES

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SENIOR SOFTWARE ENGINEER

Software engineering professional having 20 years of industry experience programming in various languages, platforms, distributed systems, and cloud microservices architecture, including 3 years in managerial role.

- Strong knowledge of distributed systems, integration, software design principles/patterns, SOAP/REST, microservices, mobile web, cloud, DevOps, CICD, software build/testing, and object-oriented methodologies.

- Hands-on experience w/ AWS (EC2, ECR, ECS, EKS, IAM, SSM, S3, VPC), IaC (Ansible, CDK), IBM Cloud (Kubernetes), Pivotal Cloud Foundry, CICD (Azure DevOps, CircleCI, TeamCity), build (Ant/Maven/Gradle).

- Architected American Airlines ticketing DevOps CICD pipeline integration and microservices deployed to IBM Cloud (Kubernetes). Wrote key software libraries, software quality gate, and build scripts (ant/ivy/maven).

- Programming experience of event-driven RESTful microservices using Spring Boot, RabbitMQ, and Apache Camel. Wrote several microservices at American Airlines.

- Wrote the Cisco Systems PPM (Prime Performance Manager) REST API webservice. Refactored back-end remote interface code to improve the distributed performance between gateway and unit components.

- Persistency programming in Java (Hibernate/JPA/Entity/EJB), C/C++ (Versant, Oracle Pro*C/C++), Perl/DBI, Python NoSQL (MongoDb), PL/SQL (Oracle), IBM IMS DB (Mark-IV). PostgreSQL, MySQL, Oracle, Redis.

- Professional experience with C, C++, Cobol/JCL/Mark-IV (IBM mainframe), Java, JavaScript, Kotlin, Perl, PHP, Python, Visual Basic, and UNIX shell scripting. Middleware: NodeJS, CORBA, RMI, REST, SOAP, TCP/IP.

- Currently working on an open-source Python project using AI/ML libraries such as SpaCy, and scikit-learn.

PROFESSIONAL EXPERIENCE

NINJAONE, TX (REMOTE)   **2023 - 2025**
Java Architect – Architecture Team
Participating in the maintenance of the NinjaRMM server platform. Java/Kotlin, Python, Bash, BitBucket, Gradle, Ansible, CircleCI/TeamCity, RabbitMQ, Redis, AWS (CDK, EC2, ECR, ECS, IAM, S3, SSM, VPC), NodeJS, npm.

- Implemented IaC CDK app (TypeScript), and Ansible playbooks to construct/deploy/setup EC2 instances. Reviewed ECS container task definitions for health check. Ensured CIS Docker benchmark compliance.
- Wrote deployment tool in Bash (10K+ lines) to deploy 40+ components during Dev/QA/Prod deployments.
- Wrote ZAP security scanner in Bash to scan 1400+ NinjaRMM endpoints reporting reports to ArmorCode.
- Developed Python RESTful app to collect environment from EC2 instances to be consumed during TeamCity CICD deploy to DEV. Implemented TeamCity pipeline build script to deploy components to QA environments.
- Wrote Kotlin Swagger classes to generate OpenAPI spec YAML/JSON files of 1400+ RESTful endpoints.

AMERICAN AIRLINES, Fort Worth, TX   **2016 - 2023**
Senior Architect/Developer – IT Applications
Member of Ticketing doing the payment collection/fulfillment of 150,000+ airlines tickets daily. Sabre, Java 11/17, Git, Maven, Azure DevOps, Spring Boot, Redis. RabbitMQ, Apache Camel, IBM Cloud (Kubernetes).

- Played lead architect and developer role in the modernization of AA ticketing IT processes and applications.
- Architected the department DevOps CICD tools integration based on Azure Pipeline, JFrog Artifactory, Sonarqube, Git, and ant/ivy/maven builds. Interacted with AA DevOps team to implement the integrations.
- Wrote department build plugin/scripts (ant/ivy/maven) responsible for building 100+ applications and libraries.
- Architected the department microservices and wrote starterkit-ms as a blueprint for new developers.
- Wrote microservices responsible for the reissue of airline tickets due to voluntary/involuntary changes, including ticketing revalidation, auto re-accommodation, async order fulfillment, and schedule change async submitter.
- Wrote event-driven messaging microservices to process the rebook of million airline tickets due to planned schedule changes (72+ hours prior to departure), and involuntary changes (bad weather flight cancelations).
- Developed create-evoucher-ms microservice during "pandemics" that enabled the automated issuing of millions of e-Vouchers to AA customers due to flight cancellations.

CISCO SYSTEMS, Morrisville (Research Triangle Park), NC   **2011 - 2015**
Software Engineer IV – Cisco Prime Performance Manager Team
Senior Software Developer – Contractor / Principle Solutions (2011 – 2012)
Engineer in the Cloud Virtualization group responsible for the Cisco Prime Performance Manager (PPM) application capable of managing up to 100,000 devices and 9.7 million interfaces. JDK 7, Jboss/Tomcat, ClearCase, Ant.

- Architected and developed the Cisco north bound PPM RESTful service to allow customers to retrieve networking device performance data in JSon/XML/CSV. Wrote the Cisco PPM REST API document.
- Refactored back-end remote interface code to improve the distributed performance between gateway and unit components. Worked on web front-end GUI components written in JSP and JavaScript.
- Developed GUI dashboard/group/summary backend reports, and support to retrieve graph reports (jpeg, png, pdf) from the REST API. Developed POC Portlet and Jasper/Pentaho reports consumers of REST data.

POCKETGEAR APPIA, Durham, NC   **2010 - 2011**
HANDANGO, Irving, TX (acquired by PocketGear)   **2007 - 2009**
Senior Software Developer - Engineering
Core technical member of Engineering participating in the development of company's open marketplace Mobile App Stores. Java SE 6. JBoss/Tomcat. MSSQL DB. JSP/CSS, JavaScript. Subversion (SVN), Ant/Maven.

- Architected and developed Vodafone India RESTful service for billing and retrieval of mobile ID.
- Developed e-Commerce account and credit card payment SOAP/WSDL web services. Wrote RSA service to encrypt phone numbers. Redesigned/re-wrote backend Appstore code to separate actions from services.
- Developed mobile AppStores for Opera, Zedge, Vodacom South Africa, Vodafone India & Egypt, Myxer, Opera, Iusacell (Mexico), Mobily (Saudi Arabia), Digicel, AMX Claro, BlackBerry RIM, and Sony-Ericsson.

OI TELECOM, Rio de Janeiro, RJ Brazil - **IT Architec**t

AMERICAN AIRLINES, Fort Worth, TX **- Sr Consultant - Contractor / Valtech**

EDS, Rio de Janeiro, RJ, Brazil – **Sr Programmer Analyst**

T-SYSTEMS, São Paulo, SP Brazil – **Project Manager – Contractor / H2M**

DIVEO BROADBAND NETWORKS, São Paulo, SP Brazil – **Sr Systems Manager**

FUJITSU NETWORK COMMUNICATIONS, Raleigh, NC – **Software Development Engineer**

SPRINT CORPORATION, Overland Park, KS – **Software Engineer III**

CERNER CORPORATION, Kansas City, MO – **Programmer Analyst**

EDUCATION

Master of Science, Electrical Engineering
The University of Kansas, Lawrence, KS
Bachelor of Science, Computer Engineering
The University of Kansas, Lawrence, KS

AWARDS

Cisco Systems Achievement Program Awards, PPM REST API Project.
American Airlines Certificate of Excellence, AA.com ITA Award Project.
Fujitsu Engineering Yearly Excellence Award, FETEX 150 NMS Project.

ADDITIONAL INFORMATION

Naturalized U.S. citizen
Accredited - Confluent Fundamentals for Apache Kafka
GitHub software sample projects   https://github.com/rubensgomes
LinkedIn personal profile   https://linkedin.com/in/rubensgomes