

# RUBENS GOMES

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## SENIOR / STAFF / PRINCIPAL SOFTWARE ENGINEER / ARCHITECT

Software Engineering Professional Having 20+ Years of Industry Experience

- 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.
- UI development experience of responsive web apps using HTML 5, Bootstrap, CSS, AJAX, AngularJS, JQuery with mid-tier code using Java Apache Struts, Spring MVC, python Flask/FastAPI, and PHP.

## 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 cancellations).
- 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 Architect**

**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>