

RUBENS GOMES

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SENIOR STAFF SOFTWARE ENGINEER / ARCHITECT

- Hands-on Software Engineer with 30+ years of professional experience designing and developing software across diverse programming languages, platforms, and distributed systems architectures.
- Focused on AI-assisted software development, microservices architecture, infrastructure as code (IaC), and CI/CD pipelines across Microsoft Azure and AWS.
- Professional experience with Microsoft Azure, AWS (EC2, ECS, S3), IBM Cloud (Kubernetes), IaC (Terraform, Ansible, CDK), CI/CD (Azure Pipelines, CircleCI, TeamCity, GitHub Actions), and build (Ant/Maven/Gradle).
- Architected American Airlines ticketing microservices and CI/CD pipelines, with deployment to IBM Cloud. Developed microservices, key software libraries, software quality gate, and build systems (ant/ivy/maven).
- Designed and developed the Cisco Systems Prime Performance Manager REST API and authored the official REST API guide.
- Programming experience developing synchronous and event-driven RESTful microservices in Java using Spring Boot and RabbitMQ, as well as in Python using the FastAPI and Flask frameworks.
- Persistence 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, and Redis.
- Professional experience with C, C++, COBOL/JCL/Mark-IV (IBM mainframe), Java, JavaScript, Kotlin, Perl, PHP, Python, Visual Basic, and UNIX scripting. Middleware: NodeJS, CORBA, RMI, REST, SOAP, TCP/IP.

PROFESSIONAL EXPERIENCE

ONBE, Plano, TX (HYBRID)

2025 - present

Senior Staff Engineer - Architecture

Tech Stack: C4 Models, Java 21, Spring Boot, Azure, Maven, Terraform, GitHub Actions, Copilot, Claude Code.

- Contributing to the design and development of payment processing microservices deployed to Azure Cloud.
- Wrote Terraform IaC and GitHub Workflow to provision Azure resources to be used by microservices: ACR, ACA, KeyVault, App Configuration and PostgreSQL Flexible Server.
- Designed and implemented GitHub Actions CI/CD pipelines to build and deploy Spring Boot microservices to Azure Container Apps.

NINJAONE, TX (REMOTE)

2023 - 2025

Java Architect - Architecture

Tech Stack: Java/Kotlin, Python, Gradle, CDK/Ansible, CircleCI/TeamCity, AWS (EC2, ECS, S3, SSM, VPC).

- Wrote AWS CDK, and Ansible playbooks to deploy internal infrastructure apps to AWS EC2 instances.
- Developed tool in Bash (10K+ lines) to deploy NinjaRMM components during QA/Prod rollouts.
- Developed web request filter to add appId, divisionId, and nodeId to log headers.
- Wrote 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

Tech Stack: Java 11/17, Spring Boot, Maven, Azure DevOps, RabbitMQ, Apache Camel, IBM Cloud (Kubernetes).

- Played a lead architect/developer role in the modernization of AA ticketing microservices architecture.
- Architected and implemented departmental microservices, CI/CD pipelines, and software build systems.
- Wrote microservices responsible for the reissue of airline tickets due to voluntary/involuntary changes.
- Developed event-driven microservices to rebook thousands of airline tickets due to flight cancellations.
- Developed the evoucher-ms microservice during the pandemic to issue millions of AA e-Vouchers.

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)
Tech Stack: JDK 7, JavaScript, Jboss/Tomcat, ClearCase, Ant.

- 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.
- Architected and developed the Cisco northbound PPM RESTful service, enabling customers to retrieve network device performance data in JSON/XML/CSV. Authored the Cisco PPM REST API documentation.
- 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.

POCKETGEAR APPIA, Durham, NC **2010 - 2011**
HANDANGO, Irving, TX (acquired by PocketGear) **2007 - 2009**
Senior Software Developer - Engineering
Tech stack: 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. Redesign/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

OPEN SOURCE & AI PROJECTS

- javamcp — Open-source AI Model Context Protocol (MCP) server written in Python, enabling integration of existing Java codebases with agentic AI development tools.
- calculator-mcp— Open-source AI Model Context Protocol (MCP) server written in Python, enabling integration of a math calculator with AI agents.
- GitHub: <https://github.com/rubensgomes>

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.