

# RUBENS GOMES

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## ARCHITECT / SENIOR STAFF ENGINEER

- Hands-on software architect with 30+ years of experience, currently focused on AI-powered software development, cloud-based microservices, CI/CD pipelines, and Infrastructure as Code (IaC).
- 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).
- Professional experience leveraging AI-assistant coding tools such as GitHub Copilot and Claude Code to accelerate software development while ensuring high code quality and system robustness.
- Developed the open-source "javamcp" AI Model Context Protocol (MCP) server in Python to integrate existing java codebase libraries with agentic AI software development assistant tools.
- 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 shell scripting. Middleware: NodeJS, CORBA, RMI, REST, SOAP, TCP/IP.

## PROFESSIONAL EXPERIENCE

**ONBE, Plano, TX (HYBRID)**

**2025 - present**

### Senior Staff Engineer - Architecture

Hands-on architect working on high-level design specs, proof-of-concept, and the development of microservices. C4 Models, Java/Spring Boot, Azure Cloud, Maven, GitHub Actions, Claude Code, GitHub Copilot, and AI LLMs.

- Writing high level specifications presented to technology executives and the architecture review board.
- Developing API driven microservices using Claude LLM as part of international payment processing.
- Developed the Orders API microservice during a 3-day hackathon for Stable Coins international payments.

**NINJAONE, TX (REMOTE)**

**2023 - 2025**

### Java Architect - Architecture

Participated 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 AWS CDK, and Ansible playbooks to deploy internal applications in AWS EC2 instances.
- Developed tool in Bash (10K+ lines) to deploy 30+ components to NinjaRMM server during QA/Prod rollouts.
- Developed web request filter to add appUserId, divisionUid, and nodeUid to log headers.
- Wrote Swagger classes to generate OpenAPI spec YAML/JSON files of 1400+ RESTful endpoints.
- Wrote documentation and setup script to install server in local development environment.

**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 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)**

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 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**

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. 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

## 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

GitHub software sample projects <https://github.com/rubensgomes>

LinkedIn personal profile <https://linkedin.com/in/rubensgomes>