Rottman M. Mendez

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PROFESSIONAL SUMMARY

Full-Stack & AI Software Engineer with extensive experience engineering scalable enterprise microservices (**Disney Streaming, FEMA, BAE Systems**) and delivering AI-augmented cloud platforms for commercial, healthcare, and nonprofit organizations. Deep expertise across modern serverless and front-end architectures (**React, Next.js, TypeScript, Tailwind CSS, Sanity, Vercel**) and enterprise backend systems (**Java, Spring Boot, Scala, Node.js, Google Cloud, Firebase, AWS**). Proven track record building production LLM integrations (**RAG pipelines, MCP, structured outputs, multi-model orchestration across Google Gemini, Anthropic Claude, and OpenAI / Codex**) and accelerating full-lifecycle delivery through agentic engineering workflows, cutting prototyping and release cycles by **45%+**.

TECHNICAL SKILLS

- **AI Systems & Engineering:** Multi-Model LLM Integration & Orchestration (Google Gemini, Anthropic Claude, OpenAI / Codex), Retrieval-Augmented Generation (RAG) Pipelines, Model Context Protocol (MCP), Structured Outputs & Tool Calling, Local LLM Inference (Ollama, DeepSeek), Agentic SDLC & Automated Prompt Engineering
- **Frontend & Modern Web:** React, Next.js (App Router), TypeScript, JavaScript (ES6+), Tailwind CSS, Redux, HTML5, CSS3, Bootstrap, jQuery, Section 508 / WCAG 2.1 AA Accessibility
- **Headless CMS & Platforms:** Sanity Headless CMS, WordPress (Custom Theme/Plugin Architecture & BuddyBoss), Headless Content Pipelines
- **Backend & APIs:** Java, Spring Boot, Scala, Node.js, Microservices Architecture, RESTful APIs, GraphQL, Vert.x
- **Cloud, BaaS & Infrastructure:** Google Cloud Platform (GCP), Firebase, Vercel, AWS (Lambda, S3, DynamoDB, Athena, SDK), Docker, Kubernetes, OpenShift
- **Databases, DevOps & Monitoring:** PostgreSQL, Firestore, Oracle, InfluxDB, Camunda, Jenkins, Maven, Git (GitHub, GitLab, Bitbucket), Datadog, Splunk, Grafana, CloudWatch
- **Design & Collaboration:** Adobe Creative Suite, JIRA, Confluence, SharePoint Online

PROFESSIONAL EXPERIENCE

Full-Stack & AI Software Engineer (Independent Consultant) **11/2023 – Present**
RottyM Designs *Reston, VA (Remote)*

- **Production AI & LLM Architecture:** Developed and deployed full-stack web applications integrating Google Gemini, Anthropic Claude, and OpenAI / Codex APIs—specializing in RAG pipelines, Model Context Protocol (MCP), structured outputs, and tool calling. Leveraged advanced agentic IDE workflows (utilizing Antigravity, Cursor, Windsurf, and Tabnine) to accelerate prototyping, automated unit testing, and feature delivery cycles by **45%+**.
- **Modern Headless & Cloud Engineering:** Designed, built, and migrated high-performance digital platforms using React, Next.js, TypeScript, Tailwind CSS, and Sanity, hosted on Vercel and backed by Google Cloud Platform (GCP) and Firebase (RBAC authentication, Firestore real-time databases, and serverless cloud functions).
- **Healthcare, Nonprofit & Commercial Platforms:** Partnered with healthcare providers, regional nonprofits, and commercial enterprises to modernize legacy web systems, automate client intake and membership pipelines, and integrate secure REST/GraphQL APIs—reducing manual administrative overhead by **35%**.
- **Custom Full-Stack & Vertical Applications:** Engineered production platforms across the RottyM Designs portfolio—including headless digital archives (*FoundArchives*), publishing portals (*Lori Eaton*), automated organizational portals (*Northern Virginia Writers Club, Men Talking*), and AI-driven management applications (*Family OS, ThrottleLife*).
- **Performance & Accessibility Optimization:** Overhauled client front-end architectures and asset delivery pipelines to consistently achieve **95–100 Google Lighthouse** performance scores, sub-second page loads (**40%+ faster LCP**), and strict Section 508 / WCAG 2.1 AA compliance.

Full-Stack Software Engineer (Contract) **09/2021 – 11/2023**
Insight Global *Remote*

Client: Disney Streaming (05/2022 – 11/2023)

- Collaborated within the Policy & Compliance engineering team to develop and scale distributed microservices supporting **100M+ global streaming subscribers** using Java, Scala, Spring Boot, TypeScript, and AWS (S3, Athena, Lambda) within Docker and Kubernetes environments.
- Led the implementation of a custom front-end authentication solution resolving dynamic cookie and local storage bottlenecks during the enterprise migration from OAuth/AuthZ to **JWT Authentication** using JavaScript, React, Redux, JSON, and JUnit, reducing session token errors by **30%**.
- Spearheaded the integration of real-time analytical tagging via the Adobe Analytics API across multiple core microservices to deliver high-volume user compliance and engagement telemetry to leadership.
- Established operational monitoring, real-time alerting, and observability suites leveraging InfluxDB, Grafana, Splunk, Datadog, and Slack, improving incident detection and mean time to resolution (MTTR) across distributed engineering teams.
- Contributed to end-to-end agile execution including peer code reviews, automated JUnit/integration testing, sprint planning, technical brown-bag presentations, and live production stakeholder demos.

Client: BAE Systems (09/2021 – 04/2022)

- Supported and enhanced a mission-critical production expense-tracking application for the **Defense Intelligence Agency (DIA)** within a secure, high-compliance distributed engineering team.
- Developed full-stack feature enhancements and resolved high-priority production defects using JavaScript and React/Redux on the front end, backed by Java and SQL, maintaining **99.9% system availability**.

Senior Software Engineer **07/2020 – 08/2021**

One Globe LLC – FEMA *Remote*

- Engineered full-stack microservices and UI workflows for the Grants Management Modernization (GMM) initiative, consolidating 40+ disparate federal grant programs processing **$3B+ in annual funding** into the unified FEMA GO platform.
- Delivered production features, BPMN workflow orchestration, and tier-3 system support using Java, React/Redux, OpenShift, AWS (DynamoDB, S3, Athena), PostgreSQL, Camunda, and Vert.x.
- Collaborated in Agile/Kanban ceremonies, cross-team war-room resolution sessions, mob programming, and automated CI/CD pipelines via Jenkins and Bitbucket, cutting deployment lead times by **25%**.

Front End Developer **12/2017 – 03/2020**

Leidos – Federal Aviation Administration (FAA) *Remote*

- Modernized internal federal web application suites serving **10,000+ agency personnel** in an enterprise .NET environment using Bootstrap, Font Awesome, and standardized modular stylesheets.
- Optimized JavaScript, jQuery, and CSS execution pipelines—improving UI rendering speeds by **30%**—while enforcing 100% federal Section 508 Accessibility compliance across all interfaces.
- Built interactive UI prototypes and automated script-minification pipelines using Webpack, authoring comprehensive technical documentation and data dictionaries adopted across engineering teams.

EDUCATION & LANGUAGES

Bachelor of Arts in Communications – University of San Carlos, Guatemala C.A.
Languages: Fluent in English and Spanish