

Manuel Herrera

Senior Full Stack / Mobile Developer — AI-Assisted Engineering

Senior Full Stack and Mobile Developer with 16+ years of experience designing, developing, and maintaining enterprise applications across healthcare, insurance, finance, e-commerce, and satellite geolocation. Over the past five years, primarily focused on mobile application development, delivering and supporting native Android and iOS solutions using Java, Kotlin, Swift, and SwiftUI, along with cross-platform applications built with React Native and TypeScript.

Experienced in developing scalable mobile architectures, reusable UI components, responsive user experiences, secure authentication flows, offline capabilities, local persistence, push notifications, deep linking, and integrations with backend services through REST and GraphQL APIs. Strong full-stack background in Java and Spring Boot, enabling effective collaboration across mobile, web, and backend teams and a deep understanding of end-to-end application workflows.

Proven track record maintaining production mobile applications, resolving performance and stability issues, modernizing legacy functionality, and delivering consistent experiences across Android, iOS, and responsive web platforms. Experienced working with React, Angular, and Vue.js to support complementary web applications and shared digital ecosystems.

Recognized for leading cross-functional Agile teams, mentoring engineers, and translating complex business requirements into reliable software. Experienced in governed AI-assisted engineering with Claude Code, applying spec-driven development, reusable Agent Skills, custom subagents, MCP integrations, and human-in-the-loop controls across backlog refinement, implementation, testing, code review, and CI/CD.

SKILLS

Frontend & Mobile: React.js, Angular, Vue.js 3, React Native, Backbone.js, Redux, HTML5, CSS3, JavaScript, TypeScript, Swift/iOS, Kotlin

Backend Development: Java 8/11/17/21, Spring Boot, Spring Framework, Java EE / Jakarta EE, Kotlin, Groovy, Python, Microservices, REST APIs, Liquibase, Flyway, Salesforce integrations, SAP integrations, Oracle ATG Commerce, Hibernate

Messaging & Caching: Apache Kafka, RabbitMQ, Redis

Search & Monitoring: OpenSearch, FullStory

DevOps & CI/CD: Docker, Kubernetes, Terraform, Jenkins, Git, GitHub Actions, GitLab, Azure DevOps, Ant, Maven, Gradle, Spock, SonarQube

Cloud & Infrastructure: AWS (S3, EC2, Aurora), Azure, GCP, Istio, Vault, Splunk, Dynatrace, Grafana

Databases: PostgreSQL, Microsoft SQL Server, Oracle, MySQL, NoSQL (Couchbase, MongoDB)

Platforms: Linux, macOS, Windows

Soft Skills: Leadership, Collaboration, Mentoring, Adaptability, Communication, Agile delivery, Ownership

AI & Agentic Engineering: Anthropic Claude / Claude Code, Spec-Driven Development, CLAUDE.md, Agent Skills, Custom Subagents, Agent Teams, MCP, Hooks, Permission Rules, Context Engineering

AI Tools & Integrations: Plugins, Cursor, GitHub Copilot, OpenAI (GPT), GitHub, Jira, Confluence, Slack

Languages: Spanish (Native), English (Professional working proficiency)

EXPERIENCE

Senior Mobile/Web Developer Oct 2025 – Present · Current

Enterprise E-Commerce Client (USA, Remote)

- Maintain and enhance customer-facing native, cross-platform, and responsive web applications for a large-scale B2B and B2C e-commerce platform serving a leading U.S. retail organization.
- Deliver mobile and web capabilities using Kotlin, Java, Swift, SwiftUI, React Native, TypeScript, React.js, and Angular, integrating commerce services through REST and GraphQL APIs.
- Design Claude Code-assisted software delivery workflows using CLAUDE.md and scoped project rules to provide persistent architectural context, coding standards, testing requirements, and execution boundaries.
- Apply spec-driven development and reusable Agent Skills to transform requirements and backlog items into implementation plans, task breakdowns, acceptance criteria, code changes, tests, and validation steps.
- Create custom subagents and multi-agent execution plans for code analysis, implementation, debugging, testing,

pull-request review, and pipeline investigation, isolating context and responsibilities by task.

- Integrate Claude Code with GitHub, Jira, Confluence, and Slack through MCP servers, connectors, and plugins to connect engineering workflows with source control, project tracking, documentation, and team communication.
- Implement ticket-to-code workflows that review backlogs, create and update Jira tasks and subtasks, retrieve specifications from Confluence, prepare and push code changes, review pull requests, inspect CI/CD pipelines, and synchronize ticket status with completed actions.
- Configure granular permission rules and PreToolUse/PostToolUse hooks to preauthorize safe operations, enforce project constraints, trigger quality checks, and require human approval for sensitive changes.
- Automate contextual Slack updates for progress, blockers, test and pipeline results, technical decisions, and pending actions while maintaining traceability to the related Jira ticket and GitHub change.
- Establish memory and context-management strategies using focused CLAUDE.md guidance, on-demand Skills, isolated subagent contexts, selective MCP usage, and task-appropriate model selection to reduce repetitive calls, token consumption, latency, and cost.
- Partner with product, UX/UI, QA, backend, and platform stakeholders to identify delivery bottlenecks, define solution scope, and adapt AI-assisted workflows to established engineering and governance processes.

Senior Mobile/Web Developer Sep 2022 – Oct 2025
Remote Contractor — Financial Services Client (USA)

- Developed and maintained native and cross-platform mobile applications using Kotlin, Java, Swift, SwiftUI, React Native, and TypeScript, delivering platform-specific functionality across Android and iOS.
- Built responsive web applications and reusable frontend components using React.js, Vue.js, Angular, TypeScript, and JavaScript, with a focus on accessibility, usability, and performance.
- Integrated mobile and web applications with REST and GraphQL services and implemented push notifications, biometric authentication, geolocation, deep linking, secure storage, background processing, offline persistence, caching, and synchronization.
- Implemented secure authentication and session management using OAuth 2.0, OpenID Connect, token-based authentication, and encrypted local storage.
- Created automated unit, integration, and UI tests and supported CI/CD, monitoring, and releases through GitHub Actions, Azure DevOps, Fastlane, Gradle, Xcode, Firebase Crashlytics, TestFlight, and the mobile app stores.
- Applied Claude-assisted engineering to analyze requirements and Jira backlog items, produce implementation plans, generate and refactor code, create tests and documentation, diagnose defects, and support pull-request reviews.
- Used AI-assisted workflows to inspect build and deployment pipelines, summarize failures, propose corrective actions, and validate changes with human review before delivery.
- Connected project knowledge from GitHub, Jira, and Confluence through MCP-based tools and reusable contextual guidance, reducing repeated discovery and improving traceability from requirements to implementation.
- Collaborated with product managers, UX/UI designers, backend developers, QA engineers, and platform teams in Agile delivery, translating business needs into maintainable mobile and web solutions.

Capability Lead / Full Stack Engineer Sep 2021 – Sep 2022
HealthTech Client (USA, Remote)

- Led the design and development of scalable microservices using Java EE 8 and Spring Boot, following distributed systems best practices.
- Delivered features across web and mobile platforms, including React.js, Angular 8, React Native, Swift/iOS, and Kotlin.
- Oversaw DevOps workflows using GitHub Actions, Docker, and Kubernetes to strengthen CI/CD and infrastructure-as-code practices.
- Applied Test-Driven Development with JUnit 5 and Mockito, improving reliability and maintainability.
- Mentored developers and collaborated with cross-functional Scrum teams on coding standards, delivery, and architectural decisions.
- Implemented Kafka and RabbitMQ messaging for inter-service communication and Redis for caching across microservices.

Senior Software Engineer / Tech Lead / Manager Jun 2019 – Sep 2021
Gorilla Logic — Insurance Client (USA, Remote)

- Designed and delivered scalable backend systems with Java EE 8, Spring Boot, and Kotlin for risk and policy management platforms.
- Built and maintained modern web interfaces using Angular 7 and RxJS, aligned with accessibility and performance standards.
- Managed CI/CD pipelines with Jenkins, Git, and Docker, deployed on AWS, and orchestrated services through Kubernetes and Istio.

- Led a cross-functional Scrum team, mentoring developers and guiding architectural decisions aligned with microservices best practices.
- Advocated clean code and implemented TDD with JUnit 5 and Mockito to improve code reliability across modules.

Senior Software Developer Mar 2017 – Jun 2019
Gorilla Logic — Space Technology Client (USA, Remote)

- Engineered backend systems using Java EE 7/8, Spring Framework, Hibernate, and Liquibase for high-availability satellite geolocation platforms.
- Developed and maintained user-facing components using Backbone.js and Angular within an MVC architecture.
- Built and deployed microservices using Tomcat 8.5, Docker, and Kafka, with CI pipelines orchestrated in Jenkins.
- Automated infrastructure provisioning and configuration with Chef and Puppet, improving deployment reliability.
- Deployed workloads to AWS EC2/S3 and optimized service integration through RESTful APIs.
- Delivered within agile Scrum environments focused on continuous delivery and performance.

Technical Lead / Senior Java Developer Sep 2015 – Mar 2017
Informatech — Debt Collection Platform (USA Client)

- Led a multidisciplinary team of 7 engineers across Java, UI, and QA for a U.S.-based debt collection platform.
- Designed backend services using Java EE 7, Spring Framework, Spring Data, and Hibernate, deployed on Apache Tomcat 8.5.
- Built single-page applications with React.js and Redux, securely integrating with REST APIs.
- Delivered microservices aligned with modularity and scalability best practices.
- Troubleshooted and optimized Apache, Tomcat, Jenkins, AWS, and Aurora DB infrastructure.
- Oversaw SDLC execution in a Scrum environment, ensuring consistent delivery of high-quality software.

Senior Software Developer, Java Migration Projects Sep 2014 – Sep 2015
Experian

- Led modernization of legacy systems built in Visual Basic, COBOL, and early .NET, migrating them to Java EE 7 applications.
- Rebuilt critical modules using Spring Framework, Spring Data REST, and RESTful APIs, deployed on WildFly and Apache Tomcat.
- Developed frontend layers with AngularJS, Bootstrap, and jQuery to enable responsive UI modernization.
- Managed database versioning and consistency with Flyway while improving code quality and maintainability.
- Contributed to digital transformation initiatives that improved performance, scalability, and integration readiness.

Senior Software Engineer / Solution Architect Aug 2013 – Sep 2014
Prodigious — Publicis Groupe

- Promoted from developer to solution architect within 3 months to lead the redesign of a high-visibility enterprise website.
- Designed core software components and architecture artifacts using Java EE 6, Struts 2.x, and Hibernate, hosted on Apache Tomcat.
- Integrated CQ5/AEM v5 as a content management system to modularize code and enable multi-site scalability.
- Delivered performant and maintainable solutions using jQuery, JMVC, and Apache CXF while following MVC and CI/CD principles.
- Led new development and long-term maintenance initiatives, ensuring design consistency and architecture alignment.

Senior Software Engineer, Cross-Platform Lead Developer Dec 2012 – Aug 2013
Prodigious — Publicis Groupe

- Acted as technical owner across PHP, .NET, Java, and ColdFusion, delivering 6+ microsites, a corporate CMS, and custom integrations.
- Modernized and maintained legacy applications, migrating critical components to scalable Java EE web systems integrated with a Perl-based CMS and CQ5/AEM.
- Built frontend layers using JSP, HTML, CSS3, and JavaScript, ensuring compatibility and responsive behavior across platforms.
- Managed deployments on Tomcat 6, IIS 7.1, and WebLogic, supporting backend logic with SQL Server and MySQL.
- Delivered end-to-end architecture and implementation under Scrum while supporting QA, build processes, and stakeholder alignment.

Senior Developer, iOS & Backend (Groovy/Grails) Jul 2012 – Dec 2012
Mobiquity, Inc. (Independent Contractor)

- Designed and delivered a custom iPad-based kiosk ordering system for a restaurant chain, enabling quick re-orders, customization, and loyalty rewards.
- Developed the iOS frontend experience with the iOS SDK, Xcode, and custom animations to improve user flow and engagement.
- Built backend services using Groovy on Grails, exposing REST/SOAP APIs for payment, loyalty, and order management integrations.
- Handled data persistence with Oracle DB and messaging through RabbitMQ, with deployments on WebLogic Server.
- Collaborated in Scrum and TDD practices, participating in UX ideation, wireframing, and API contract design.

Lead Software Engineer, Enterprise & Multi-Platform Development Apr 2011 – Jul 2012 *Bosz Digital*

- Led frontend and backend teams across Java, PHP, and .NET to deliver enterprise and mobile applications for clients in multiple industries.
- Architected and implemented solutions using Java EE 5/6, Spring, Hibernate, and Groovy, deployed on Tomcat 6 and IIS 5.1.
- Built responsive UIs using JSP, HTML5, JavaScript, jQuery, Prototype, and Scriptaculous.
- Defined and enforced coding standards, design patterns, and CI/CD pipelines using Ant, Maven, and Hudson.
- Integrated CMS platforms including TeamSite, Magnolia, and CQ5, and managed SQL Server, Oracle, and MySQL databases.
- Played a key role in agile ceremonies and cross-team coordination to deliver software aligned with client goals.

Senior Software Engineer / Technical Lead Jun 2010 – Apr 2011 *Bosz Digital*

- Oversaw frontend and backend implementation of enterprise web applications using Java EE 5, Struts 1.2, and Ant-based build pipelines.
- Delivered full-stack features across JSP, HTML5, JavaScript, CSS2/3, Tomcat 6, iPlanet Server, and TeamSite.
- Applied design patterns and led internal best-practice initiatives for maintainable, layered architecture.
- Integrated CMS platforms including Magnolia and CQ5 to support scalable content publishing workflows.
- Participated actively in Scrum-based sprints, contributing to both implementation and technical direction.

EDUCATION

Bachelor's Degree in Information Technologies and Communication Universidad Latina de Costa Rica — San José, Costa Rica

CERTIFICATIONS

Web and Mobile Developer BootCamp — Cenfotec
 Scrum Master Professional Certified — Cenfotec
 Scrum Foundations Certified — Cenfotec
 Agility Specialization — Instituto Tecnológico de Costa Rica (ITCR)
 Microservices with Java and Spring Boot — LiteThinking
 Web Development / React Native / React Web App / Course Update for Java EE 6 — Cenfotec