# John Ryles

AI & AUTOMATION SOLUTION ARCHITECT

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## SKILLS

### AI & AUTOMATION

- Prompt Engineering
- Agent Pipelines
- Claude Code
- GitHub Copilot
- Codex
- AI Governance & Standards

### MOBILE & PLATFORM

- Swift
- SwiftUI
- Swift Macros
- Kotlin
- Jetpack Compose
- KSP
- Apple Platform Development
- ESRI

### TOOLS & INFRASTRUCTURE

- REST APIs
- GitLab CI/CD
- Jira API
- Clean Architecture
- Figma
- Technical Documentation

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### FEATURED BUILD

## ATLAS

Automated Ticket Lifecycle
& Acceleration System

#### 5-LAYER ARCHITECTURE

- **L5 Model**
  Codex headless coding agent
- **L4 Tooling**
  Jira API · GitLab · direct integration
- **L3 Orchestration**
  Sequential agent loop per profile
- **L2 Infrastructure**
  Cost logging · idempotency · health checks · alerts
- **L1 Interface**
  Daemon via launchd · profile isolation · lock files

| bi-dir | Human-AI interaction via Jira comments |
| ✓ | Integrated unit tests · graceful shutdown |
| HITL | Human-in-the-loop by design — not a black box |

**Design principle:** *The agent is the last mile. Coding standards, ticket discipline, and prompt constraints produce quality — not the model itself.*

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16+ years building production Apple platform software — from the original iPhone to visionOS. Team lead, AI systems architect, and enterprise mobile engineer. Designed and built **ATLAS**, a production AI pipeline running Codex as a headless coding agent against live Jira and GitLab workflows. Authored division-wide coding standards, a Swift Macro architecture system, and a reusable AI agent skill library — portable across Claude, GitHub Copilot, and Codex. Delivers executive-level AI and automation proposals across business divisions with documented ROI projections. Drives AI R&D initiatives, scopes projects directly with business stakeholders, and bridges technical solutions with real operational needs.

## EXPERIENCE

### Senior iOS Application Engineer II
MAR 2020–PRESENT
**GREAT AMERICAN INSURANCE GROUP** · Remote

- Account owner for the enterprise Apple Developer Account and Google Play Store — all certificates, provisioning, distribution, and release management across the entire organization
- Lead engineer on **five** production iOS 17+ apps serving enterprise Insurance operations — continuously modernized ensuring zero technical debt on new OS releases
- Designed and built **ATLAS** (Automated Ticket Lifecycle & Acceleration System) — AI pipeline using Codex as a headless coding agent; triggered by Jira ticket status, generates code and submits MRs; bidirectional human-AI interaction via Jira comments
- Led the initiative to establish and maintain **coding standards across iOS, Android, and web** division-wide — consumed verbatim by AI agents; built a reusable AI agent skill library covering code generation, feature scaffolding, unit tests, refactoring patterns, linting, and documentation
- Architected a **proprietary Swift Macro system** auto-generating complete Data and Domain layers plus ViewModel Factory at compile time; enforces Clean Architecture, eliminates ~90% of boilerplate, supports offline-first, cache policies, CRUD, and microservice patterns
- Serves as the **division's AI initiative lead** — building production systems and POCs with Claude Code, GitHub Copilot, Codex, and emerging platforms; goes beyond evaluation to delivery
- Collaborates across the division and adjacent business units — identifying AI and automation opportunities, translating operational needs into technical solutions, and delivering executive-level proposals to leadership

### Mobile Application Developer
JAN 2015–MAR 2020
**UK HEALTHCARE** · Lexington, KY

- Developed and maintained iOS and Android apps: **Antimicrobial Stewardship, Hand Hygiene Tracker, CARE KY, Pediatric Echo Pocket Guide,** and **Indoor Wayfinding**
- Worked within the DevOps and Identity Access Management team — enterprise IT infrastructure, access controls, and security practices
- Performed data analysis using Tableau and SQL against the enterprise data warehouse — supporting clinical and operational decision-making

### iOS Developer
JAN 2010–PRESENT
**FREELANCE** · Independent

- **This Is My Voice** (AAC/Medical) — Free AAC communication app for users with autism, cerebral palsy, apraxia, and other speech disabilities; 340 symbols, 12 categories, 85 languages, Personal Voice support, full VoiceOver/Switch Control accessibility
- **SensorySpace** (Health & Fitness) — Interactive sensory scenes for calm and self-regulation; Metal rendering, touch-responsive scenes, ambient audio; designed for neurodivergent users; no ads, no tracking

## EDUCATION

### B.S. Computer Science
2008–2013
**UNIVERSITY OF KENTUCKY** · Lexington, KY

- Active Capstone Project Sponsor — University of Kentucky College of Engineering