

This comprehensive guide takes developers from zero to production-ready AI voice agents using SignalWire's powerful Python SDK. Starting with installation and a working agent in minutes, the book progressively builds expertise through core concepts like SWML (SignalWire Markup Language) and SWAIG (SignalWire AI Gateway) functions, then advances into sophisticated topics including multi-step conversation workflows, state management, call recording, and multi-agent architectures. Whether you're building a simple FAQ bot or a complex enterprise receptionist with department routing, the SDK's elegant design—featuring decorator-based function definitions, a modular skills system, and DataMap for serverless API integration—makes development intuitive while maintaining the flexibility needed for real-world deployments.

The book serves equally well as a tutorial and reference, with extensive API documentation, environment variable guides, and over fifty working code examples organized by feature and complexity. Deployment options cover every scenario from local development to Docker, Kubernetes, AWS Lambda, and CGI environments, with dedicated chapters on SignalWire account setup, phone number configuration, and production troubleshooting. Five pre-built agent templates (InfoGatherer, FAQBot, Survey, Receptionist, and Concierge) provide battle-tested starting points for common use cases, while the skills system enables one-line integration of capabilities like web search, Wikipedia lookups, weather APIs, and custom knowledge bases. This is the definitive resource for developers ready to build voice-enabled AI applications that actually work in production.

DON'T PANIC: A Practical Manual for SignalWire AI Agents SDK

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