



# MORGAN HOARE

## PRODUCT ENGINEER

Ruby | TypeScript | Python | Distributed Systems  
Building AI-powered customer-facing platforms

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### SUMMARY

Backend-focused Software Engineer with 5+ years of experience building customer-facing platforms, APIs, and distributed systems in Ruby, TypeScript, and Python.

Experienced in designing highly configurable business workflows, domain-driven services, and internal platforms that improve development velocity and operational efficiency.

Recently focused on AI-powered applications, multi-agent systems, and LLM-driven workflows.

### WORKING EXPERIENCE

#### AON coverwallet DIGITALIZING INSURANCE BROKING

##### PRODUCT ENGINEER | 2022 - Present

- Designed and owned backend services powering onboarding flows for customers, enabling highly configurable form logic that reduced development time for new forms by ~30%
- Experience designing and implementing Spec Driven Development with LLMs. OpenSpec, SpecKit
- Implemented monitoring and observability using Datadog and Sentry, reducing time to detect and diagnose production issues
- Developed internal tooling to streamline development workflows and improve team efficiency.

#### ComunidadFeliz BUILDING AND CONDOMINIUM FINANCIAL MANAGEMENT SOFTWARE

##### FULL-STACK DEVELOPER | 2020 - 2022

- Developed product features in a Rails monolith with a React frontend for property and financial management workflows.
- Designed and maintained APIs and data models in PostgreSQL supporting core business operations.
- Deployed and maintained production applications on AWS.
- Contributed to scaling the platform in a fast-growing startup environment, supporting thousands of buildings across Chile and increasing system demands.

#### Increasing DIGITAL AGENCY SOFTWARE FACTORY FOR EARLY STAGE VENTURES

##### JUNIOR FULL-STACK DEVELOPER | 2020

- Built a back-office application for a catering service with paying customers. Ruby on Rails. <https://www.cookingservice.com.ar>
- Contributed to a TDD-oriented engineering culture with strong emphasis on code quality and maintainability.

### PROJECTS

#### AI Agent Workflow System (WhatsApp)

- Designed and built a multi-agent system using LLMs to guide users through the creation of structured formal speeches via WhatsApp.
- Integrated with WhatsApp (Twilio) for real-time conversational interaction
- Built end-to-end pipelines to gather user input, structure content, generate speech drafts, and deliver printable PDF/Docx documents, including payment integration.
- Designed prompts and orchestration for reliable multi-step execution

### EDUCATION

- Bachelor's Degree in Mechanical Engineering (Mechatronics)
  - Instituto Tecnológico de Buenos Aires (2019)
- Full-Stack Web Development
  - Le Wagon Full-Stack Bootcamp - Buenos Aires (2020)

### LANGUAGES

SPANISH: Native  
ENGLISH: Native

### SKILLS

- Backend:** Ruby on Rails, Python (FastAPI), Node.js (NestJS)
- Frontend:** React, Next.js
- Languages:** Ruby, TypeScript, JavaScript, Python, C++
- Architecture:** Microservices, REST APIs, GraphQL, Domain-Driven Design
- Databases:** PostgreSQL, MongoDB
- Cloud & DevOps:** GCP, AWS, CI/CD (CircleCI)
- Observability:** Datadog, Sentry
- Security:** Snyk, Brakeman
- AI Systems:**
  - LLM integration
    - OpenAI | Anthropic | Gemini
  - Spec Driven Development:
    - OpenSpec | SpecKit
  - Multi-agent orchestration and workflow design
  - Structured outputs (function calling / JSON schemas)
  - Prompt design for deterministic multi-step pipelines

### BEFORE SOFTWARE DEVELOPMENT

Mechanical Engineer - Aeronautical Industry

- Expertise in mechanical design and manufacturing of high-precision components, including CAD modeling and structural integrity analysis.
- Ensured safety, reliability, and compliance with aeronautical standards through meticulous design and analysis.
- Streamlined manufacturing processes and quality control.