

# JUSTIN CASTILLO

AI DEVELOPER | TYPESCRIPT & PYTHON | FULL-STACK ENGINEER

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## PROFILE

AI-focused Software Engineer with 8+ years building production applications in TypeScript, React, Node.js, and Python. Specializing in Generative AI—actively building RAG pipelines, conversational AI systems, and knowledge-retrieval architectures. Certified in Anthropic's Model Context Protocol and Claude AI development. Proven ability to rapidly adopt emerging technologies (blockchain-to-AI pivot). Strong background in REST/GraphQL APIs, AWS cloud infrastructure, and remote cross-functional collaboration.

## CORE COMPETENCIES

- **Currently developing expertise in:** RAG pipelines, LangChain, conversational AI, NLP, vector databases, LLM integration
- **Languages:** TypeScript, JavaScript, Python, Node.js, C++
- **Frontend:** React, Next.js, Vue.js, Angular
- **APIs & Data:** REST, GraphQL, PostgreSQL, vector search (pgvector)
- **Cloud & DevOps:** AWS, Docker, CI/CD, distributed systems
- **Practices:** Clean code, testing (Jest, Cypress), Agile, code reviews, remote collaboration

## CERTIFICATIONS & TRAINING

- **Machine Learning Specialization** — Stanford / DeepLearning.AI (In Progress – 2026)
- **Retrieval Augmented Generation (RAG)** — DeepLearning.AI (In Progress – 2026)
- **Model Context Protocol: Advanced Topics** — Anthropic (Mar 2026)
- **Introduction to Subagents** — Anthropic (Mar 2026)
- **Claude Code in Action** — Anthropic (Mar 2026)
- **Claude 101** — Anthropic (Mar 2026)

## PROFESSIONAL EXPERIENCE

### SENIOR SOFTWARE ENGINEER

Jan 2023 – Present

Moody's | Insurance Analytics

- Architect and maintain production features for insurance analytics platforms using React, Vue.js, and TypeScript, serving cross-functional product teams
- Design and consume RESTful APIs with Python and Node.js back-ends, integrating data pipelines for analytics dashboards
- Collaborate with distributed, remote cross-functional teams; consistently exceed delivery expectations while mentoring junior engineers

**Technologies:** React, Vue.js, TypeScript, JavaScript, Python, Node.js, AWS, PostgreSQL, Docker, REST APIs

### BLOCKCHAIN ENGINEER

May 2021 – Jan 2023

Everipedia International

- Built consumer-ready decentralized applications handling thousands of daily transactions in emerging technology stacks
- Designed smart contracts with comprehensive testing suites; developed knowledge-retrieval and content verification systems

**Technologies:** TypeScript, Solidity, Web3.js, React, Node.js, Ethereum, GraphQL

### BLOCKCHAIN ENGINEER

Mar 2020 – May 2021

EOS Costa Rica

- Developed enterprise blockchain solutions focused on security, cryptography, and distributed consensus; collaborated with government entities on compliance
- Gained deep experience in distributed systems architecture and data integrity—directly transferable to AI orchestration and multi-agent systems

**Technologies:** C++, TypeScript, JavaScript, EOSIO, PostgreSQL, REST APIs

### FULL-STACK ENGINEER

Nov 2016 – Mar 2020

Comunidad Aplicaciones Móviles

- Delivered full-stack applications for various clients; led client consultations and built strong foundation in API design, frontend and backend development

**Technologies:** React, Angular, Node.js, Python, TypeScript, PostgreSQL, Linux

## EDUCATION

**BACHELOR OF COMPUTER ENGINEERING** — Instituto Tecnológico de Costa Rica, San Carlos | **CONARE English Program** — FundaTEC