

Cristopher Jhonatan Miranda Suarez

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EDUCATION

Salesian University of Bolivia - Jala University

Bachelor of Science in Commercial Software Engineering

Competitive Programming Competitor (ACM ICPC)

Top 2 Nationally — Team Jalapeños

- Mastered advanced data structures and algorithmic paradigms (dynamic programming, graph traversal, greedy algorithms) to solve complex problems under tight time constraints.

Centro Boliviano Americano

High Intermediate English Program (B2)

Cochabamba, Bolivia

February 2020 - November 2025

Bolivia

Cochabamba, Bolivia

2025

EXPERIENCE

Software Developer

Miragon Construction & Consulting

Jan 2025 – Dec 2025

Cochabamba, Bolivia

- Designed and built a multi-tenant web platform for construction planning using Next.js and Node.js, enabling centralized, isolated workspace management for multiple clients.
- Developed scalable RESTful APIs with FastAPI/ASP.NET and architected relational database schemas to ensure seamless, secure data flow for complex project metrics.
- Implemented Random Forest classifiers/regressors achieving [63]% accuracy on activity prediction, reducing project estimation time from [2] days to [4] hours for the planning team.
- Created interactive dashboards for real-time visualization of project progress, transforming raw predictive data into intuitive charts that streamlined stakeholder decision-making.
- Translated complex construction domain requirements into technical solutions, leading iterative development cycles under Agile methodologies to ensure on-time delivery.

AI Code Review Agent Engineer

Independent (Freelance)

Remote

- Architected and deployed an autonomous code review system using Claude API and GitHub Actions to analyze pull requests for security vulnerabilities, performance issues, and code quality violations.
- Engineered multi-agent orchestration pipeline reviewing 40+ pull requests across open-source repositories, identifying critical security vulnerabilities with 88% precision and generating actionable feedback.
- Integrated GitHub API with Claude's prompt engineering to provide context-aware code reviews covering security checks, performance bottlenecks, architectural anti-patterns, and missing error handling.
- Deployed production-ready GitHub Actions workflow enabling autonomous code review on every PR, reducing manual review time by 70% and improving consistency across development teams.

PROJECTS

TaskFlow API | C#, ASP.NET, Entity Framework, SQL Server

- Built a RESTful API for task scheduling and project management using ASP.NET Core
- Designed a relational database schema with Entity Framework Core and SQL Server
- Implemented JWT authentication and role-based authorization for secure access
- Documented endpoints using Swagger/OpenAPI for seamless developer onboarding

Custom Functional Language | Haskell

- Designed and implemented a custom functional programming language from scratch
- Defined formal semantics and constructed an abstract syntax tree (AST)
- Built a parser, type checker, and interpreter
- Implemented core functional features including higher-order functions and type inference

Research Agent Orchestrator | Python, Claude Code, MCP, NotebookLM

- Built an AI agent pipeline using Claude Code and the Model Context Protocol (MCP) to automate research workflows
- Integrated NotebookLM as an external knowledge source, enabling agents to query and synthesize domain-specific documents
- Orchestrated multiple agents to divide tasks such as summarization, fact-checking, and report generation
- Designed a modular architecture allowing new tools and data sources to be plugged into the agent workflow

TECHNICAL SKILLS

Languages: Python, C#, JavaScript, HTML5, CSS3, TypeScript, SQL

Frameworks: React, Next.js, Node.js, Django, FastAPI, ASP.NET, Entity Framework

Databases: PostgreSQL

APIs & Web Services: RESTful APIs

Libraries: pandas, NumPy, scikit-learn, TensorFlow

Developer Tools: Git, GitHub, Docker, GitHub Actions, Postman, Swagger

Authentication & Auth: Auth.js (NextAuth.js)

Cloud / Platforms: AWS, Firebase

AI-Assisted Development: Claude Code, Cursor

Spoken Languages: Spanish (Native), English (High Intermediate)