

# Dany Chucri

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## EDUCATION

**Bachelor of Science in Computer Science** | Rutgers University, New Brunswick

- 3.94 GPA, 1-year-early graduate

## SKILLS

**Languages:** C#/.NET, Python, Java, C/C++, JavaScript/TypeScript, SQL

**Libraries/Frameworks:** React, ASP.NET Core, Node.js, Vue, JDBC, CuPy, NumPy, Pandas, Jest, pytest, JUnit

**Developer Tools:** Git, GitHub, Linux, Bash, Docker, Jira, PowerShell, Maven, Android Studio, ESLint

**Cloud/Other:** AWS (S3, EC2, EKS, Bedrock, SageMaker), SQL Server, MongoDB, WebSockets

## EXPERIENCE

**Quantitative Analyst** | Data Annotation

Oct 2024 - Sep 2025

- Tested and evaluated LLM performance within RAG pipelines, API integrations, and MCP server environments, identifying failure modes and improving response accuracy/context-awareness.
- Developed and automated unit and regression testing in Python for model benchmarking.
- Created prompt engineering frameworks and templates for coding, mathematics, and various specialized domains/use cases, boosting precision and reproducibility of outputs by about 20%.
- Evaluated LLM performance for clients (e.g., Anthropic, xAI) using structured benchmarking criteria.
- Conducted cross-model benchmarking (Claude Sonnet 4.0, GPT-5, Gemini, Grok, etc.), producing insights that reduced reasoning errors by upwards of 28% and improved reliability.
- Designed hooks and steering strategies for agentic workflows, including use of JSON and MDC, which improved code-generation quality and developer efficiency.

## PROJECTS

**Apollo** | AI-Integrated Video Editor

Jan 2026 – Present

- Architected a distributed, polyglot system using Electron + React, Python (gRPC), and Rust, defining service boundaries and inter-process communication.
- Led end-to-end development of the timeline and analytics systems, designing core data models, playback architecture, and multi-track media synchronization across video, audio, and subtitles.
- Made key architectural decisions including adopting gRPC over REST and designing the Rust-based media engine split for performance-critical processing.
- Engineered high-performance media pipelines in Rust (FFmpeg) for processing, encoding, and export.
- Built the backend orchestration layer, implementing API services, SQLite caching, and OAuth flows for YouTube, Gmail, and Google Cloud integrations, such as BigQuery.
- Implemented end-to-end data pipelines for YouTube analytics, trend analysis, and sponsor outreach automation using Gemini and Google APIs.
- Developed AI infrastructure and workflows, including prompt design, model routing, tool-calling systems, and reliability mechanisms for production-grade LLM integrations.
- Designed and optimized media synchronization and processing pipelines, ensuring consistent playback and alignment across multiple media streams.

**Grid Trading Bot** | Python, WebSockets, REST APIs, SQLite

Mar 2026 – May 2026

- Built and deployed an automated algorithmic trading system for perpetual futures, implementing market-making and mean-reversion strategies across BTC and ETH markets.
- Architected a modular event-driven platform consisting of order management, market data, risk management, PnL monitoring, and persistence services communicating through real-time exchange APIs.

- Designed layered risk controls including volatility circuit breakers, breakout detection, inventory limits, funding-rate monitoring, drawdown protection, and automated emergency position liquidation.
- Deployed and maintained the platform on cloud-hosted Linux infrastructure, integrating WebSocket market-data streams, REST failover mechanisms, SQLite-based state recovery, and deterministic order reconciliation for fault-tolerant operation.
- Achieved 97%+ unit-test coverage across core trading and risk modules and completed extended testnet validation prior to live deployment.

**Travel Site** | Java, SQL, JDBC, JSP/HTML

Nov 2023 – Dec 2023

- Built a full-stack travel booking web application using Java, JSP, and SQL, enabling flight search and booking functionality
- Designed a normalized database schema and implemented backend integration via JDBC with version-controlled development (Git)