

# ALBERTO MEJÍA

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## EDUCATION

<b>Georgia Institute of Technology</b> , M.S. in Computer Science Specialization in Interactive Intelligence	GPA: 3.63 08/2025
<b>Rensselaer Polytechnic Institute</b> , B.S. in Computer Science ( <i>cum laude</i> ) Concentration in AI & Data, Minors in Psychology, Game Studies	GPA: 3.55 12/2020

- Relevant Courses:** NLP, AI Ethics & Society, Knowledge-Based AI, Game AI, ML for Trading, AI for Robotics
- Relevant Courses:** Machine Learning from Data, Intro to AI, Software Design & Documentation, Database Systems

## PROFESSIONAL EXPERIENCE

<b>Twitch Interactive (Amazon) - Monetization, Commerce Personalization Team</b> <i>Machine Learning Engineer</i>   Go, TypeScript, AWS (Lambda, Airflow/MWAA, CDK, etc.)	<b>San Francisco, CA</b> 07/2022 – 06/2023
<ul style="list-style-type: none"><li>Led the Payment Suspension Report (PSR) pipeline overhaul, automating data lake uploads and extending fraud tables; streamlining fraud data workflows that reduced payout requirements by 50%, supporting the Money team's mission.</li><li>Boosted fraud detection by enabling historical analysis and downstream fraud signal development.</li><li>Collaborated cross-functionally to adapt existing ML infrastructure that served model predictions from our ML services.</li><li>Improved reporting capabilities for our models, allowing applied scientists to track performance metrics in CloudWatch.</li></ul>	
<b>Citi - Global Consumer Technology</b> <i>Machine Learning Engineer</i>   HDFS, Hive, PySpark, and YARN	<b>Dallas, TX</b> 07/2021 – 07/2022
<ul style="list-style-type: none"><li>Migrated data science models to Citi's Big Data EAP to allow end-to-end model development, analysis, and automation.</li><li>Managed model deployment across environments, coordinating approvals and resolving migration-related issues.</li><li>Created onboarding materials and training methodologies for new hires and facilitated stakeholder communication.</li></ul>	
<b>Tokyo Electron Limited</b> <i>Data Informatics Analyst Intern</i>   Python (PySide2, Matplotlib, Pandas)	<b>Albany, NY</b> 01/2020 – 05/2020
<ul style="list-style-type: none"><li>Worked with several teams for user feedback, feature requests, and mockup reviews to design a new cross-platform tool.</li><li>Revamped a customer-facing GUI for data analysis; optimized &amp; refactored underlying code, reducing SLOC by 50%</li></ul>	
<b>Rensselaer Polytechnic Institute (RPI) - IDEA, CISL labs</b> <i>Undergraduate Researcher</i> , Institute for Data Exploration and Applications   OpenCV	<b>Troy, NY</b> 09/2019 – 12/2019
<ul style="list-style-type: none"><li>Researched the application &amp; feasibility of various Computer Vision techniques for the Hockey Motion Capture project.</li><li>Applied techniques such as color masking and contour detection to track fast moving objects.</li></ul>	
<i>Undergraduate Researcher</i> , Cognitive and Immersive Systems Lab   Python	02/2019 - 5/2019
<ul style="list-style-type: none"><li>Researched Natural Language Generation for a Multimodal Dialogue/Machine Teaching research project.</li><li>Refined agent dialogue to match the complexity of the user by computing the difficulty of spoken sentences.</li></ul>	
<b>IBM - Watson Customer Engagement, Power Systems Performance</b> <i>Cognitive Software Developer Intern</i>   Python (Matplotlib, Plotly), Red Hat Enterprise Linux	<b>Dublin OH, Austin TX</b> 06/2019 - 08/2019
<ul style="list-style-type: none"><li>Developed automated processes to accelerate IBM POWER9' &amp; POWER10 chip deployment for post-silicon validation.</li><li>Saved 100+ hours of labor via benchmarking scripts, data processing &amp; simplification, and interactive charts/graphs.</li></ul>	
<i>Software Development Intern</i>   Java (IBM 10x), Chef-Generator, Maven, Vagrant VM, & WebSphere	06/2018 - 08/2018
<ul style="list-style-type: none"><li>Modernized IBM Inflight's usability through reduced clicks, labels, and simplification of data presentations.</li><li>Learned agile methodologies, consulted with UX designers, &amp; enhanced client exposure to IBM Cloud data processing.</li></ul>	

## TECHNICAL SKILLS

<b>Software/Tools:</b> Python (Django/Flask, NumPy, Pandas, Matplotlib, unittest), Java, Scheme, PostgreSQL, Docker, Arduino	
<b>Certificates:</b> AI Cybersecurity (Nvidia Triton), Deep Learning, Generative AI w/ Diffusion, Anomaly Detection, Adversarial ML	

## RELEVANT PROJECTS

<b>Agentic Job Match App</b>   React (JavaScript, CSS), Pydantic, FastAPI, Qdrant, Temporal.io, Azure	08/2025, 10/2025
<ul style="list-style-type: none"><li>Engineering a full-stack RAG (Retrieval Augmented Generation) system with a simple frontend &amp; event-driven backend with state durability. Leverages a Vector Database and an LLM (Google Gemini or Anthropic Claude) to support Q&amp;A.</li><li>Built a job ingestion pipeline to match resumes with best-fit roles using semantic search from postings on career sites.</li></ul>	
<b>GPT-OSS Finetuning Experiment</b>   Colab, Unsloth, vLLM, Hugging Face libs	09/2025, 10/2025
<ul style="list-style-type: none"><li>Utilized QLoRA for efficient, quantized fine-tuning of GPT-OSS-20B on a multilingual thinking dataset. Leverages vLLM's high-throughput API inference serving for end-to-end MMLU evaluation using OpenAI's simple-eval framework</li></ul>	
<b>Job Offer Comparison Mobile App</b>   Android Studio, Java, JUnit, Room Persistence (SQLite)	06/2025 - 07/2025
<ul style="list-style-type: none"><li>Applied object-oriented architecture, integrated intuitive interfaces, fixed critical stability errors, &amp; led sprint planning.</li></ul>	
<b>Q&amp;A Chatbot Series</b>   Python (Keras, PyTorch)	05/2019, 11/2024
<ul style="list-style-type: none"><li>Built a binary answer chatbot using End-To-End Memory Networks. Trained on Facebook AI Research's bAbI dataset.</li><li>Built an extractive answer chatbot using Key-Value Memory Networks. Trained on a Wikipedia biography dataset.</li></ul>	