

BRANDOM GUZMAN-LORA

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SUMMARY

Rising software engineer and AI researcher with experience building **Agentic automation tools**, conducting applied **AI research**, and **developing data-driven solutions** for sustainability challenges. Experienced working on interdisciplinary research through The Grove School of Engineering at CCNY. **Building agentic workflows**, implementing **RAG systems**, creating **voice agents**, and **data analysis and research** to solve real-world problems. Passionate about artificial intelligence, software engineering, and using technology to create scalable environmental and societal impact. Seeking internships where I can contribute technical skills while continuing to grow as a software engineer.

TECHNICAL EXPERIENCE

Supervising Research Intern CUNY CREST HIRES – Manhattan, NY

June 2026 – Present

- **Mentored a cohort of undergraduate research interns**, providing technical guidance, project planning, and regular check-ins while supporting research execution and professional development.
- **Co-lead a research project** investigating community perceptions of **nuclear energy facilities** and **AI data centers**, utilizing literature reviews, **public sentiment analysis**, GIS visualization, and data analysis techniques.

Research Fellow CCNY x MIT – Manhattan, NY

January 2026 – May 2026

- Developed Agentic tools that researched companies leveraging **RAG systems** through live web searches, public records and extracted key business and sustainability metrics then exported the standardized comparison data into Excel for a more human readable **UI/UX** view.
- Utilized AI development tools including **Claude**, **GitHub Copilot**, and **Microsoft Copilot** to accelerate debugging, prompt engineering, and feature development.
- **Designed customizable benchmarking functionality** to compare organizations across revenue, renewable energy adoption, emissions, and philanthropic initiatives.
- Co-developed an urban upkeep proposal for New York City by combining environmental research, community outreach, and data-driven policy recommendations.

Research Intern CUNY CREST HIRES – Manhattan, NY

June 2025 – August 2025

- Conducted comparative evaluation of different models based on **honesty**, **hallucination rates**, **mutli-modal data interpretation**, and **agentic performance** for estimating flood depths from qualitative disaster reports.
- Published an ArcGIS StoryMap visualizing global undernourishment trends using GIS and spatial analysis techniques.
- **Presented research findings at the NYCSR Consortium.**

Student Intern Van Cortlandt Park Alliance – Bronx, NY

February 2024 – May 2024

- Collected and analyzed water quality data, including pH measurements, to identify environmental concerns and recommend remediation strategies.
- Assisted with logistics supporting a fundraising campaign that secured over **\$400,000** for engineering and restoration initiatives.

LEADERSHIP EXPERIENCE

Flightdeck-AI Software Factory | Hackathon Winner

June 2026

- **Placed 1st in the Render Track** for building an AI-powered software delivery workflow with automated planning, coding, testing, review, and deployment stages.
- Helped develop a gated pipeline that generated preview deployments, allowing reviewers to test features before approving pull requests.
- Worked with Render deployment services, AI-agent workflows, React/Vite dashboards, and persistent run-state tracking to support end-to-end software automation.

Live site: <https://flightdeck-board.onrender.com/architecture>

City Hacks The State | Hackathon Winner AI Facilities Intake & Work-Order Platform

June 2026

- **Placed in the Top 5** overall at the hackathon and won the **Best Architecture** award for helping design a scalable, AI-powered facilities-reporting system that accepts requests through web chat, Telegram, and voice calls.
- Built an agentic workflow to verify facility locations, classify issue priority, draft clear maintenance reports, and require user confirmation before submitting work orders.
- Connected AI intake workflows with a work-order dashboard, **GraphQL APIs**, **MongoDB**, **Telegram**, **Twilio**, and server-side routes that protected sensitive credentials.
- Collaborated on an AI-powered facilities reporting platform that enables students to submit building issues through web chat, Telegram, and voice calls.

Live site: <https://ca-intake-ae320e.fly.dev/architecture.html>

HONORS & AWARDS

The Gates Scholarship

April 2025

The Bill and Melinda Gates Foundation

- Awarded the highly competitive, full-ride The Gates Scholarship in recognition of outstanding academic achievement, leadership, and commitment to community impact.

Network for Teaching Entrepreneurship (NFTE)

June 2025

NFTE Mid-Atlantic Youth Entrepreneurship Challenge

- Awarded 2nd place out of 75 participants, securing a place in the NFTE National Youth Entrepreneurship Challenge.

The Pinkerton Foundation

August 2025

Pinkerton Science Scholar

- Selected through the competitive CUNY HIRES program for exceptional STEM engagement, research potential, and commitment to applied scientific problem-solving.

Network for Teaching Entrepreneurship (NFTE)

October 2025

NFTE National Youth Entrepreneurship Challenge

- Awarded top 16 out of 46 top participants across the United States.

SKILLS

RAG, Agentic Engineering, Data Analysis, Web Scraping, SQL, Data Analysis, Bash, React, Next.js, Node.js, Typescript, Javascript, Python, Dart

CERTIFICATIONS

Google AI Essentials – Google <http://nop-na2.hubspot.com/academy/achievements/4f9c7f9a/en/1/brandom-guzman/digital-marketing-certified>

May 2026

Digital Marketing Certified – HubSpot Academy <https://www.coursera.org/account/accomplishments/specialization/1LJJ4IU5MU80>

May 2026

EDUCATION

Grove School of Engineering (CUNY) – 3.8 GPA – Bachelor of Science (BS) in Computer Science