

# Chris Brasil

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## EDUCATION

### New York University

New York, NY

*Bachelor of Science in Computer Science, Minor in Mathematics*

*Expected May 2026*

- **Coursework:** Operating Systems, Computer Architecture, Data Structures & Algorithms, Discrete Mathematics, Object Oriented Programming, Software Engineering, Databases, Artificial Intelligence
- **GPA:** 3.54/4.00

## EXPERIENCE

### Software Engineering Intern

Sep 2025 – Present

*Octozi — Clinical AI Team*

*Brooklyn, NY*

- Engineered a protocol-aware rule generator with LLMs to extract study logic from clinical trial protocols
- Converted unstructured protocol text into configurable validation checks, reducing manual review for experts
- Implemented a reviewer interface for editing and deploying suggested rules to ensure clinical transparency

### Software Engineering Intern

May 2025 – Aug 2025

*Whirlpool — ML Team*

*Benton Harbor, MI*

- Established a mature end-to-end local database using Room, enabling data storage and adaptive learning
- Designed production-grade inference APIs to integrate a food recognition model into retail-ready smart ovens
- Built a complete adaptive data pipeline supporting continuous model improvement within consumer homes

### Software Engineering Intern

May 2024 – Aug 2024

*Whirlpool — Tools Team*

*Benton Harbor, MI*

- Developed computer vision algorithms to accurately detect camera obstructions in KitchenAid ovens
- Deployed an internal support tool for rack-level detection, notably improving the performance of oven ML models
- Executed real-time testing on an oven featuring my algorithms for on-product validation, yielding 94% accuracy

## PROJECTS

### Rapid Ride | GAML, SQL

Hanoi, Vietnam

- Utilized digital twin technology to test a virtual scooter program in Hanoi and assess environmental impacts
- Secured first place for best pitch and program at VinUniversity's competition, demonstrating real-world potential
- Created visualization results using interactive map-based data displays to show air and traffic improvements

### Health Reflect | HTML, CSS, JavaScript, Python, Git, Raspberry Pi

Abu Dhabi, UAE

- Implemented an intelligent mirror to monitor air quality within the NYU Abu Dhabi campus
- Configured the intelligent mirror on a Raspberry Pi, applying low-level frameworks to process environmental data
- Integrated real-time data processing to send user alert notifications when air quality levels were hazardous

### ChessBot | C++, Python, Git

NYC, New York

- Prototyped a fully functional smart chessboard controlled through voice command in a limited 3-month period
- Assembled a linear motion system with an electromagnet to drive piece movement across the board
- Utilized Google Cloud's Speech-to-Text API to recognize player commands and trigger piece movement
- Awarded with an annual distinction for demonstrating excellence in general engineering design

## LEADERSHIP & PROFESSIONAL DEVELOPMENT

### Global Leader & Scholar in STEM Honors Program

May 2023 – Present

- Recognized as one of 25 scholars across engineering majors for exemplary leadership and academic distinction
- Led cross-functional projects with a diverse team of engineers to address the UN Sustainable Development Goals

### Management Leadership for Tomorrow Fellow

Oct 2023 – Present

- Participated in a rigorous program focused on leadership training and career acceleration
- Engaged with industry leaders through the MLT network to build skills in networking and personal branding

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL (SQLite), JavaScript, HTML/CSS, Verilog, VEX, GAML

**Developer Tools:** Git, Android Studio, VS Code, Visual Studio, PyCharm, CLion, Vim, GAMA, Jira

**Languages Spoken:** English (Native), Portuguese (Native), Spanish (Fluent)