

# DIEGO MARQUES

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## EDUCATION

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### Cornell University, College of Engineering

Ithaca, NY

Major: Computer Science

Expected Graduation May 2026

**Relevant Coursework:** Algorithms, Machine Learning, Artificial Intelligence, Data Structures, Discrete Structures, Object Oriented Programming, Introduction to Computing, Multivariable Calculus, Linear Algebra

### Princeton University, AI4ALL Summer Program

Remote

Concentration: Natural Language Process (NLP), Machine Learning

Jul 2020

A summer program taught by Princeton University Staff covering the fundamentals of AI and Machine Learning, with significant long term projects using NLP and convolutional neural networks to detect fake news with reduced bias.

## WORK EXPERIENCE

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### Humana - Software Engineering Intern (Miami, FL)

May 2024 - Aug 2024

- Developed generative AI tools to automate IT workflows, enhancing IT development productivity and authored a comprehensive report on leveraging AI to simplify complex healthcare concepts for consumers.
- Gained proficiency in Agile methodologies with Azure DevOps, reducing project deployment time by nearly 30%.
- Organized a hackathon with 100 participants, leading to 11 projects suitable for company-level deployment.

### Lavner Education - IT Intern (Miami, FL)

Jun 2023 - Aug 2023

- Developed documentation and lesson plans for 75+ prospective engineers focusing on core system design.
- Coordinated and facilitated hands-on workshops for web development frameworks, guiding participants through building a dynamic portfolio website using HTML, CSS, and JavaScript.
- Designed and coded several interactive full-stack example projects to reinforce essential programming concepts.

## EXTRACURRICULARS

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### Cornell Hack4Impact - Technical Lead (Ithaca, NY)

Sep 2023 - Present

- Leading a team of 6 developers, I am architecting and developing the Cornell Endowment Manager Application, a new platform tailored for financial management of non-profit organizations and academic institutions.
- Developed full-stack solutions for the OKB Hope Foundation, enabling virtual appointments and consultations between Ghanaian patients and psychiatrists, leveraging the FERN (Firebase, Express.js, React, Node.js) tech stack.
- Contributed to the Lagos Food Bank Initiative, focusing on nutrition and hunger relief, leveraging React, Next.js, Prisma, and PostgreSQL.

### Cornell FinTech - Software Engineer (Ithaca, NY)

Jan 2023 - Present

- Led a team of 5 developers in designing and deploying a web-based sentiment analysis platform applying NLP to evaluate stock sentiment via public opinions and social media data.
- Contributed to the development of a risk analytics platform using Django by implementing data visualization tools and integrating real-time market data feeds.
- Further researched stock prediction with a focus on integrating machine learning algorithms and historical market trends to enhance the accuracy of predictive models.

### Cornell WebDev - Co-President (Ithaca, NY)

Jan 2023 - Present

- Developed a tailored curriculum for new team members, providing essential web development skills, including proficiency in React, JavaScript, TypeScript, and CSS.
- Founded 'GigEship,' a Cornell startup that connects student entrepreneurs with software developers, fostering collaboration among college-based founders and led a team of 10+ developers.
- Collaborated with other student organizations and departments to organize joint events, workshops, and hackathons, promoting engagement and networking within the web development community.

## SKILLS & VALUES

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**Languages:** Python, Java, JavaScript, HTML/CSS/TS, SQL, OCaml, C++, C#

**Machine Learning:** PyTorch, scikit-learn, NumPy, Pandas, OpenCV

**Web Development:** React, Next.js, Angular, Node.js, Express.js, Bootstrap, DaisyUI, Django, Flask

**DB and DevOps:** MongoDB, MySQL, Prisma, PostgreSQL, Docker, AWS, Git

**Core Values:** Curious, DIY, Maker, Problem Solver, People Person, Motivated, Dreamer, Unstoppable Work Ethic