

Rafael Piloto

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Education:

Emory University 📍 Atlanta, GA 📅 August 2020 - Expected Graduation Date: May 2024

- 🎓 Bachelor of Science in Computer Science, Minor in Quantitative Sciences
- 📖 Courses Taken: CS 171 Foundations of Computer Science, CS 224 Discrete Math

New Albany High School 📍 New Albany, OH 📅 August 2016 - May 2020

- 🎓 Summa Cum Laude, GPA: 4.3319
- 📖 Courses Taken: AP Computer Science A / Honors Robotics / AP Physics 1 / AP Calculus AB / AP Statistics

Projects & Skills: [github/RafaelPiloto10](https://github.com/RafaelPiloto10)

A.P.O.L.L.O Honors Capstone Research Project 📅 May 2019 - Present 🔗 [github/RafaelPiloto10/A.P.O.L.L.O](https://github.com/RafaelPiloto10/A.P.O.L.L.O)

- 🔍 Researched efficiency and necessity for personal assistants and built my own assistant from scratch for the browser
- 🔧 Technologies / JavaScript, NodeJS, BootStrap, Python, HTML, CSS, Natural Language Processing, API's

Spotify Song recommender API 📅 May 2019 - Present 🔗 [github/RafaelPiloto10/Spotify-Mood-Recommender](https://github.com/RafaelPiloto10/Spotify-Mood-Recommender)

- 🌐 Web Scrapped +800 song lyrics, performed sentiment analysis on lyrics, and created TensorFlow estimators to recommend songs using sentiment analysis on a target sentence
- 🔧 Technologies / Python, JavaScript, TensorFlow, Sentiment Analysis, Custom Backend API for A.P.O.L.L.O

FIRST Robotics Competition 📅 August 2016 - Present 🔗 [github/NAHSRobotics-Team5667/FRC_2019](https://github.com/NAHSRobotics-Team5667/FRC_2019)

- 👑 Managed and led a team of programmers to collaborate, develop, implement, and test software within 2 weeks
- 🔧 Technologies / Java, PID Control Loops, Autonomous Software, Computer Vision for Targeting & Path Finding

Work Experience:

Emory Center for the Study of Law and Religion Student Assistant 📅 August 2020 - Present

- 🔧 Worked to develop websites for the Center, created digital solutions to improve team efficiency such as contact list database merger and Center web scraper for article documentation, preservation, and DOI tagging
- 🎥 Performed Multimedia duties such as image editing, video editing, and video captioning for Canopy Forum
- 📊 Performed data analysis for website marketing and development using Google Analytics

Organizations:

FIRST Robotics (Java) 📅 August 2016 - Present

- 👑 FIRST Lego League Co-Founder & Mentor / Handled logistics for the team and mentored the programming team
- 🔧 FIRST Robotics Challenge / Programming Lead / Collaborated, Programmed, & Tested team code applications
- 👑 Georgia FIRST Collegiate Alumni and Association Co-Founder / Mentorship for Georgia FIRST Teams
- 👑 Georgia FIRST Collegiate Alumni and Association at Emory President / Robotics club / Mentorship

HackEmory 📅 September 2020 - Present

- 🔧 DevOps / Develop HackEmory Hackathon Software such as hackathon registration and help chatbots

HyperJackets Hyperloop Team (C++) 📅 September 2020 - Present

- 🔧 Motor Interface / Developing CAN communication to communicate with Hyperloop pod motors and PID control
- 🔧 Simulator / Developing pod simulator to test hardware components and current software

QuestBridge Scholars Network 📅 August 2020 - Present

Emory ICPC Competitive Programming Team 📅 August 2020 - Present

Google Computer Science Summer Institute 📅 July 2020 - August 2020

Achievements:

QuestBridge National College Match Scholar (11/2019-Present) 🔗 Amazon AWS InCommunities Scholar (08/2020-Present)
Distinguished Honor Capstone Research Project (05/2020) 🔗 HSF Scholar (06/2020-Present) 🔗 FIRST Robotics Challenge
Buckeye Regional Finalists & Chairman's Award Winners (3/2019) 🔗 Adobe Photoshop Industry Certified (05/2017)

Languages: English (Native) 🔗 Spanish (Native) 🔗 American Sign Language (Native) 🔗 Mexican Sign Language (Native)