

Joshua Malek

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Summary: Seeking a Summer 2020 internship in the field of Computer Science.

Education:

Rensselaer Polytechnic Institute, Troy, NY

Expected Graduation: May 2021

BS in Computer Science, GPA 3.25/4.00

Minor in Psychology, Concentration in Artificial Intelligence & Data

Awards: Rensselaer Leadership Medal

Work Experience:

FM Global: Software Engineer Co-op, Johnston, Rhode Island

June 2019 - January 2020

- Updated Sample API demonstrating the RESTful principles to match API Standards documentation. Implemented multiple new endpoints and API key authorization in C#, using .NET Core and Swagger.
- Designed a template to test APIs, using the Sample API above as a testbed.
- Published template to help incoming employees easily test their APIs as part of a pipeline.
- Built an Exchange Rate API testing suite to perform automated testing using SpecFlow.
- Cooperated with Head Financial Team to develop the suite to their needs and specifications.
- Led meetings, participated in code reviews, and refined cooperative development mindsets and practices with AGILE.

ChainStreet Capital: Developer, Remote

Summer 2018

- Developed a network of bots in Node.js designed for Cryptocurrency and Finance-based Discord discussions.
- Reduced subscription price by \$500 per account with my network.

Weill Cornell MC-Q: IT Intern, Doha, Qatar

Summer 2016

- Built a system to update company archives to modern PDF specifications.
- Optimized and scaled system to process workloads of over 100000 pages.

Projects:

Cookbook.js:

January 2020 - Present

- Built a web platform for users to easily save recipes to a graphic board and add their own recipes to the board.
- Constructed an interface for the Edamam API to provide calorie information and ingredients, as well as images.
- Developed a backend PostgreSQL database for user information and recipe caching.

Discord Bot Network:

May 2018 - Present

- Used project written for ChainStreet Capital with permission and developed into an open source project.
- Maintain repository health and frequently push updates.

Steam/Natural Language Processing Trading Bot:

Nov 2017 - Present

- Designed a bot for conversational item trading in the Steam economy.
- Developed a caching system to retrieve current item prices without overwhelming the Steam public API.
- Adapted DialogFlow natural language processing to read user interaction and respond conversationally.

Relevant Coursework:

• Operating Systems, Database Systems, Algorithms, Principles of Software, Computer Organization, Foundations of Computer Science, Data Structures, Embedded Control, Computer Components and Operations, Engineering Communications

Skills:

Programming - C#, Java, Python, JavaScript, Node.js, C++, C, React.js, SpecFlow, PostgreSQL, Perl, Latex

Software - Microsoft Office, DialogFlow, .NET Core, Postgres, LTSpice IV, Siemens NX CAD

Languages - Proficient in Spanish

Activities/Volunteering:

Society of Hispanic Professional Engineers: Member

2019 - Present

- Participate in general body meetings
- Develop professional and leadership skills to impact the world positively