

Joshua Malek

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Summary: Seeking a Software Engineer career opportunity for 2021.

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: Dean's List & Honor List 2020, 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.

Projects:

Donatio: (donatio-site.herokuapp.com)

June 2020 - Present

- Built a backend server on AWS providing API query access through GraphQL to our MongoDB Atlas database.
- Wrote a Flutter mobile app with Dart, allowing users to see their details, including total donated, medals unlocked, and XP earned.
- Integrated a leaderboard to let users compare experience to all other users, with a weekly competition for most donated.
- Developed a Chrome extension to allow users to easily hook into their Amazon checkout page with React, Node, and Amazon Pay.
- Constructed a website with HTML and JavaScript to provide a place for new users to check out the project and learn how to start donating. The website routes external traffic from the Chrome extension and displays the Nonprofit of the Day from the backend.

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.

Steam/Natural Language Processing Trading Bot:

Nov 2019 - 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, Dart, JavaScript, Node.js, C++, C, React.js, SQL, HTML, Perl, Latex

Software - Microsoft Office, Flutter, GraphQL, 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