Sebastian George Grammas
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Computer Science student at Rensselaer Polytechnic Institute (RPI) seeking an internship opportunity to apply my experience and passion for computer science.

Relevant Experience

Interned at ALQIMI Technology Solutions in Rockville, Maryland from May-August, 2024
- o Designed and implemented web scraping solutions to extract PDFs and critical information, integrating data with Elasticsearch for optimized search functionality.
- o Developed and deployed NiFi pipelines to automate code uploads to server environments.
- o Researched and implemented methods to extract data from image-based PDFs without local file storage, ensuring compliance with server restrictions and creating a scalable solution for future use by the company.
- o Enhanced and optimized Vega-based dashboards, refining query logic for improved visualization, performance, and anomaly detection accuracy.
- o Developed a formula to prioritize anomalies by relevance and frequency, conducting experiments on bucket lengths and historical comparisons to refine scoring models.
- o Built and tested anomaly detectors for the Summer Olympics, while researching proximity search techniques for advanced querying in Vega code.
- o Engaged in an open-source software development project at RPI called Easy Artistry based on existing open-source resources. Easy Artistry is a tool intended to aid small artists and indie studios in developing larger projects using AI image generation.
- o Johns Hopkins Cyber Security Workshop, Summer 2021
- o First Tech Robotics Team 16270, 2019-2022 (Founding Member)
- o Kelly Scholars Program, 2018-2022, highly competitive, upper-level honors and Advanced Placement coursework, with concentration in STEM disciplines.

Relevant Skills

- o **Web Scraping**: Experienced in writing custom scripts to extract and process data from websites, ensuring efficient and accurate data collection for analysis.
- o **Data Engineering**: Proficient in designing and deploying NiFi pipelines, automating data workflows, and integrating data with Elasticsearch for scalable search solutions.
- o **Data Science & Visualization**: Skilled in optimizing Vega-based dashboards, enhancing anomaly detection models, and developing algorithms for anomaly scoring and trend identification.
- o Problem Solving and Critical Thinking
- o Strong Mathematical Foundation
- o Programming Languages: Java, Vega, Python, C++, C, Matlab, Dafny, and R-Studio.
- o Demonstrated problem-solving skills through algorithm development .
- o Developed and implemented custom web scraping scripts to extract and process data from various online sources, ensuring efficient and accurate data collection.

Education

Rensselaer Polytechnic Institute, Troy, NY. Expected graduation: May 2026. GPA 2.98
- o Major: BS Computer Science with a concentration in Cyber Security; Minor: Economics
- o Scholarships: Rensselaer Recognition Scholarship and Rensselaer Leadership Scholarship
- o Activities: NCAA Soccer; Pi Kappa Alpha Fraternity Recruitment Officer

Mount Saint Joseph High School, Baltimore, MD. Graduated May 2022. Cumulative GPA: 4.4
High School Diploma with Honors in STEM; Kelly Scholars Honors Program (all honors course work)
Activities: First Tech Robotics Team 16270; Varsity Soccer; Leadership Club; Ping Pong Club