

# PETER RAUSCHER

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## EDUCATION

### Stevens Institute of Technology

GPA: 3.2

*Bachelor of Science in Computer Science, Concentration in Cybersecurity*

*Aug 2019 – May 2023*

Awards: Edwin A. Stevens Scholarship, Dean's List 2019 and Spring 2022

Coursework: Data Structures & Algorithms, Database Management Systems, Cloud Computing, Concurrent Programming, Systems Programming, Web Development, Agile Methodologies, Software Development Process

## EXPERIENCE

### Software Engineer

Jun 2018 – Aug 2019

*Almo Corporation*

*Philadelphia, PA*

- Streamlined partner sales by building and maintaining automation software using Microsoft's .NET Framework, facilitating seamless compliance with ASC-X12 EDI specifications, leading to reduced errors and significant cost savings for the company.
- Built SQL queries dynamically which generated monthly vendor reports and provided insight into the IT team's ticket-response rates, enabling data-driven decision-making and leading to enhanced operational performance.
- Designed and deployed several web pages for our self-service web portal using ASP.NET, jQuery, and Bootstrap, enhancing employee productivity and reducing workload for Human Resource representatives.
- Increased awareness of security threats by responding to help-desk tickets regarding phishing attempts.

## PROJECTS

### OAPEN Suggestion Service | Python, SQL, Express, Docker, DigitalOcean

- Developed a recommendation service alongside other seniors for the OAPEN Library to suggest similar books, articles, and journals based on the semantic content of each publication.
- Utilized natural language processing with NLTK, pandas, and NumPy to filter irrelevant content and generate statistical distributions of only meaningful word occurrences.
- Built an Express API which queried pre-processed data from our PostgreSQL database to provide results in less than one second.
- Streamlined the deployment of each service component to DigitalOcean droplets through Docker Compose.

### SneakSnitch | Python, Flask, MongoDB, AWS

- Built and monetized an API with Flask to provide access to information about popular sneakers and upcoming release dates for brands like Nike and Adidas.
- Automated web scraping tasks with crontab and Python to ingest new release data and product catalogs to the Mongo database.
- Deployed and secured the necessary network infrastructure on AWS.

### Incognito Music Streaming | React, Mongo, Redis, Firebase

- Designed an alternative music and podcast single-page application using React and MUI, allowing users to curate playlists, browse new releases, and search for artists and tracks without listening interruptions.
- Used MongoDB and Redis to cache site data, optimizing page load times and minimizing Spotify API calls.
- Utilized Firebase to manage user accounts and store Spotify API access tokens securely with JWT tokens.

### Py-Gutenberg | Python, UnitTest

- Developed an open-source Python library to provide programmatic access to the Project Gutenberg library.
- Implemented continuous integration workflows for unit testing with Pytest and formatting with Black.
- Automated the continuous delivery of versioned releases to the PyPi software repository through Github Actions.

## SKILLS & CERTIFICATIONS

**Languages:** Python, JavaScript, C#, C++, Java, SQL

**Frameworks:** Microsoft .NET, NLTK, pandas, NumPy, Flask, Django, Node.js, React, Bootstrap, MUI

**Technologies:** Git, Docker, REST APIs, Firebase, AWS, DigitalOcean, MongoDB, Redis, Linux, Windows

**Certifications:** AWS Certified Cloud Practitioner

U.S. Citizen