

PETER RAUSCHER

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EDUCATION

Stevens Institute of Technology

Bachelor of Science in Computer Science

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

Aug 2019 – May 2023

Hoboken, NJ

EXPERIENCE

Software Engineer

Almo Corporation

Jun 2018 – Aug 2019

Philadelphia, PA

- Streamlined partner sales by building automation software using Microsoft's .NET Framework to process **\$500,000+** in purchases, effortlessly updating order status resulting in reduced errors and significant cost savings
- Bolstered IT department's ticket response rates by **20%** using SQL queries to generate monthly vendor reports and provide insight into the team's ticket-response rates, enabling data-driven decision making and enhancing operational performance
- Designed, deployed, and tested three graphical dashboards using ASP.NET and Bootstrap for the company's self-service web portal to measure and visualize employee performance, enhancing productivity and reducing repetitive workloads for Human Resource representatives
- Combated security threats by responding to help-desk tickets regarding phishing attempts

PROJECTS

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

- Developed a recommendation engine with a team of fellow seniors for the OAPEN Foundation to suggest similar books, articles, and journals based on the semantic content of each publication
- Utilized natural language processing techniques with NLTK, pandas, and NumPy to filter irrelevant content from a library of **30,000+** publications and generate statistical distributions of only meaningful word occurrences
- Built an Express API which used SQL queries to serve pre-processed data from a PostgreSQL database to provide results in fractions of a second
- Automated the deployment of each service component to DigitalOcean droplets through Docker and CI/CD

SneakSnitch | *Python, Flask, DynamoDB, AWS*

- Generated a revenue stream of **\$200/mo** by pioneering a first-of-its-kind REST API enabling programmatic access to information about popular sneakers, aftermarket prices, and upcoming release dates for brands like Nike, Adidas, and Air Jordan
- Scheduled web scraping tasks with Amazon CloudWatch and AWS Lambda functions to ingest new release data and product catalogs from vendor websites to the DynamoDB database
- Deployed, secured, and optimized the necessary network infrastructure on AWS to ensure elasticity

Py-Gutenberg | *Python, GitHub Actions*

- Created a widely-used open-source Python module that grants programmatic access to the Project Gutenberg library, garnering over **2,000 installs** in only two months, with continuous daily growth
- Streamlined unit testing and refactoring by leveraging **continuous integration** workflows with Pytest and Black
- Automated the **continuous delivery** of versioned releases to the PyPi software repository through the use of GitHub Actions, mitigating the need for manual input and saving hours of manual labor

Incognito | *React, MongoDB, Redis, Firebase*

- Designed an alternative music and podcast single-page application using React and Express, allowing users to curate playlists, browse new releases, and search for artists and tracks without listening interruptions
- Slashed loading times by **250%** by caching site data with MongoDB and Redis to minimize Spotify API calls
- Utilized Firebase to manage user accounts and store metadata such as Spotify API access tokens securely with JWT

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, C#, Java, SQL

Certifications: AWS Certified Cloud Practitioner

Frameworks: Node.js, React, Angular, NLTK, pandas, NumPy, Flask, Django, Microsoft .NET

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

U.S. Citizen