

Shahriyar Shawon

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EDUCATION

Drexel University

Bachelor of Science in Computer Science

Philadelphia, PA

September 2020 – Present

EXPERIENCE

Susquehanna International Group (SIG)

Software Developer Co-Op | C#, .NET, Oracle DB, MySQL, WPF

Bala Cynwyd, PA

September 2023 – March 2024

- Developed robust data integration system to accurately source data from 15 sources and ensured accuracy and reliability for rewrite of a legacy web application
- Designed and implemented role based security access system to protect privileged data
- Separated front-end and API layers of web app to provide an extensible mechanism to source data to improve flexibility
- Introduced caching mechanism to speed up lookup times
- Transformed Windows Communication Foundation (WCF) application into REST API, to allow modern versions of .NET to use service

Susquehanna International Group (SIG)

Software Developer Co-Op | Python, Django, Linux

Bala Cynwyd, PA

September 2022 – March 2023

- Engineered Service Level Agreement(SLA) violation alerting system which
 - * Allows easier and flexible management of SLAs (Intra-day CRUD)
 - * Decouples SLA checking from pre-existing monolithic alerting tool
- Designed models and their relations, added functionality to existing APIs, and wrote service that checks state of SLAs at a set interval
- Developed accurate and flexible collection of metrics for HTCondor jobs
- Increased accuracy of tool to display missing users of internal files

Susquehanna International Group (SIG)

Web Developer Co-Op | C#, SQL, .Net Framework/Core

Bala Cynwyd, PA

September 2021 – August 2022

- Added new and modified CRUD functionality to various SIG internal web apps
- Restructured databases to implement new functionality within existing internal web applications
- Created front-end for API to allow general purpose alerts to be set up at given intervals
- Developed process and maintained documentation for facilitating migration of projects from Perforce to Git while preserving their histories

PROJECTS

Drexel Term Master Schedule API | *FastAPI, grequests, BeautifulSoup*

March 2023 – June 2023

- Created API for Drexel course information gathered through a web scraper
- Asynchronously gathered Drexel course information to keep up to date records in database
- Mocked session state to scrape information only accessible through session

FridgeByte | *Flask, MongoDB, Cloudflare, Digital Ocean, Heroku*

February 2021 – June 2021

- Web app that allows users to get recipes based on what they have in their pantry
- Developed login and register system for users
- Designed algorithm to search for recipes for a user based on their pantry
- Migrated web app from Heroku and Cloudflare to a Digital Ocean VPS and deployed site using nginx as a proxy server

TECHNICAL SKILLS

Languages: Python, C, C#, Java, SQL, Matlab, Racket, Scheme, HTML5/CSS3/Javascript

Frameworks: Numpy, Pandas, FastApi, Django, Flask, .Net Core/Framework, Entity Framework, JQuery

Developer Tools: Git, Jira, Atlassian, GitLab CI/CD

Platforms: GNU/Linux, Windows, Raspberry Pi, Arduino