Shahriyar Shawon

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EDUCATION

Drexel University   Philadelphia, PA
Bachelor of Science in Computer Science   *September 2020 – June 2025*

EXPERIENCE

Susquehanna International Group (SIG)   Bala Cynwyd, PA
Software Developer Co-Op | C#, .NET, Oracle DB, MySQL, WPF   *September 2023 – March 2024*
- Developed a data integration system for 15 sources, enhancing accuracy and reliability for legacy web application rewrite
- Designed and implemented role based security access system to protect privileged data
- Implemented separation of front-end and API layers in web app for improved data sourcing flexibility
- Introduced caching mechanism to enhance lookup speed
- Transformed Windows Communication Foundation (WCF) application into REST API, to allow modern versions of .NET to use service

Susquehanna International Group (SIG)   Bala Cynwyd, PA
Software Developer Co-Op | Python, Django, Linux   *September 2022 – March 2023*
- Developed a Service Level Agreement (SLA) violation alerting system
- Improved SLA management through Intra-day CRUD operations
- Separated SLA checking from the existing monolithic alerting tool
- Designed models, implemented API functionality, and created a service for monitoring SLA states
- Enhanced metric collection for HTCondor jobs
- Enhanced accuracy in identifying missing users from internal files

Susquehanna International Group (SIG)   Bala Cynwyd, PA
Web Developer Co-Op | C#, SQL, .Net Framework/Core   *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

Dynamic Image Compression Engine | *C, RP2040*
- Built firmware for 2 RP2040 chips to interface with FPGA and IO modules
- Designed and implemented dynamic image format to store lossy and lossless blocks of data using QOI and PNG codecs
- Created desktop app to change camera settings on the fly and get live feed and power/data metrics from hardware
- Created pipeline to compare software based encoding performance to hardware based encoding

Drexel Term Master Schedule API | *FastAPI, grequests, BeautifulSoup*
- Created API for Drexel course information gathered through a web scraper
- Asynchronously scraped Drexel course information to keep up to date records in database
- Mocked session state to scrape information only accessible through sessions

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