Shahriyar Shawon

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EXPERIENCE

Susquehanna International Group (SIG)   Bala Cynwyd, PA
Software Developer Co-Op | Python, Django, Linux   *September 2022 – March 2023*
- Engineered Service Level Agreement(SLA) violation alerting sytem 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)   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 GitLab while preserving their histories

PROJECTS

Drexel Term Master Schedule API |*FastAPI, grequests, BeautifulSoup, PostgreSQL*   March 2023 – June 2023
- API for Drexel course information gathered through a web scraper and stored into a PostgresSQL database
- Asynchronously gather Drexel course information to keep up to date records in database
- Published Python client library to interface with the web API
- Made API public facing by deploying API to VPS

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

LOLComicGrabber | *Python, AJAX, JSON*   August 2019 – October 2019
- Command line utility and library to download comics off of League of Legends website
- Reverse Engineered AJAX requests for locations of images
- Generated and scraped locations of images to organize image into cbz comic book format

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

EDUCATION

Drexel University   Philadelphia, PA
Bachelor of Science in Computer Science | GPA: 3.26   *September 2020 – Present*
Relevant Coursework: Operating Systems **(C, Inferno OS)**, Networks **(C, TCP/UDP/IP, Protocols)**, Computational Photography **(MatLab)**, Machine Learning **(Numpy, Pandas)**, Systems Programming **(C, Linux)**, Programming Languages **(Racket, Scheme)** Computer Programming 1–2**(OOP Python)**, Linear Algebra, Advanced Programming Tools and Techniques **(C, Bash, awk, sed)**, Mathematical Foundations of Computer Science **(Racket)**, Software Engineering**(Java, TDD)**