

Gurleen Singh

gurleen.singh@drexel.edu ❖ (267) 255-6806 ❖ Philadelphia, PA ❖ <https://gurleen.dev/>

WORK EXPERIENCE

Susquehanna International Group

Bala Cynwyd, PA

Software Developer, Energy Desk

June 2023 - Present

- Design and build Python API for hosting predictive machine learning models
- Develop processors in C# .NET to generate statistics on millions of nodes on the electrical grid
- Build new UI views in .NET-based data frontend in tandem with trading team
- Support the software needs of 10+ traders and quants as they navigate energy market auctions

Philadelphia Phillies

Philadelphia, PA

Associate Software Engineer, Baseball Research & Development

March 2022 - September 2022

- Created data pipelines in Python to receive and process baseball game data
- Enhanced efficiency and stability in MLB data reception through multithreading
- Worked with analysts and baseball operations staff to improve quality of data and models
- Developed and configured new Airflow DAGs for data ingest from third parties

Drexel University

Philadelphia, PA

Broadcast Engineer, Athletics

October 2018 - Present

- Produce television broadcasts of NCAA DI basketball games for NBC Sports Philadelphia
- Research statistics and analytical data that helps tell the story of each game
- Develop, maintain and document Python and HTML5 powered graphics playout software

Susquehanna International Group

Bala Cynwyd, PA

Software Development Co-op, Energy Desk

March 2021 - September 2021

- Developed efficient software pipelines using Python to deliver market data to team of 12 traders
- Designed and implemented REST API to serve high-resolution tick data from Intercontinental Exchange
- Conducted UI testing using Selenium to improve reliability of market data frontend

Linode

Philadelphia, PA

Software Engineering Intern, API

March 2020 - March 2021

- Decreased global API response time by 20% by measuring and configuring app logging using Salt
- Contributed new code and tests to Linode API v4 using Python and Flask for 800k+ customers
- Engineered and deployed SSL certificate upload feature for Object Storage service
- Accelerated developer metrics tracking for managers by building Vue interface for GitHub Enterprise API

WeWager

Philadelphia, PA

Co-Founder, CTO

May 2019 - August 2021

- Implemented Django REST API backend for sports application with 200+ beta users
- Designed and developed mobile app using Flutter for iOS and Android

EDUCATION

Drexel University

June 2023

Bachelor of Science in Computer Science

Philadelphia, PA

Relevant Coursework: Data Structures, Systems Programming, Machine Learning, Concurrent Programming

SKILLS

- **Programming Languages:** Python, Java, JavaScript, C# (advanced), C/C++, Go, R, Dart, HTML/CSS (intermediate)
- **Technologies:** Docker, Kubernetes, Salt, Linux, AWS, SQL, Git
- **Frameworks:** Django, Flask (advanced), Express, Vue, Flutter (intermediate)
- **Applications:** Adobe Creative Suite, Final Cut Pro