

Gurleen Singh

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WORK EXPERIENCE

Software Developer, Energy Markets

Jun 2023 — Present

Susquehanna International Group

Bala Cynwyd, PA

- Refactored C# .NET pricing and exposure engines with SIMD, achieving 50x speedup
- Built ML model (Python + scikit-learn) to predict 5,000+ daily energy auction prices; deployed via FastAPI
- Enhanced C# + WinForms trading app with telemetry and features for faster issue resolution and better UX
- Added unit tests and benchmarks to legacy code, improving reliability of critical trading systems

Software Engineering Associate, Baseball R&D

Mar 2022 — Sep 2022

Philadelphia Phillies

Philadelphia, PA

- Built real-time data pipelines in Python to ingest and process live MLB game data
- Improved data ingestion performance and reliability via multithreaded Python optimizations
- Partnered with analysts and ops staff to refine datasets and support predictive modeling
- Designed and deployed Airflow DAGs to automate and stabilize third-party ETL workflows

Software Development Co-op

Mar 2021 — Sep 2021

Susquehanna International Group

Bala Cynwyd, PA

- Built Python pipelines to deliver real-time market data to 12 energy traders
- Designed REST API to serve high-resolution tick data from ICE exchange for research and trading
- Automated UI testing with Selenium to improve reliability of market data frontend app

Software Engineering Intern, API

Mar 2020 — Mar 2021

Linode

Philadelphia, PA

- Contributed to Linode API v4 (Python/Flask) used by 800K+ customers, including new features and tests
- Improved global API response times by 20% with async IO optimizations
- Built and deployed SSL certificate upload feature for Object Storage
- Created VueJS dashboard to track GitHub Enterprise metrics for engineering managers

Co-Founder & CTO

May 2019 — Feb 2021

WeWager

Philadelphia, PA

- Built Django REST API backend for beta app with 200+ testers
- Designed and developed cross-platform mobile app using Flutter for iOS and Android
- Led technical architecture and product direction for a peer-to-peer sports betting exchange

ASK ME ABOUT

Sports Broadcast Graphics, Drexel DragonsTV

Jan 2019 — Present

- Built broadcast graphics system for Drexel Basketball telecasts, replacing \$10K+ commercial tools with custom C# Blazor software
- Engineered backend to automate team data prep (rosters, images, colors), cutting setup time from 2+ hours to 20 seconds
- Powered HTML graphics with live stats for real-time analysis; used on broadcasts for NBC Sports Philadelphia and SNY

EDUCATION

Drexel University

Bachelor's of Science, Computer Science

Philadelphia, PA

SKILLS

- **Programming Languages:** C#, Python, SQL, Java, JavaScript, C/C++, Go, R, Dart, HTML/CSS
- **Technologies:** Docker, Kubernetes, Linux, AWS, Git, Airflow