Gurleen Singh

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EDUCATION

Drexel University   **Anticipated Graduation: June 2023**
Bachelor of Science in Computer Science   *Philadelphia, PA*
Minor in Entrepreneurship and Innovation
Relevant Coursework: Data Structures, Systems Programming, Artificial Intelligence, Software Architecture I, Linear Algebra, Programming Language Concepts

WORK EXPERIENCE

Susquehanna International Group   **Bala Cynwyd, PA**
Software Development Co-op, Energy Desk   *March 2021 - Present*
- Developed efficient software pipelines using Python to deliver market data to team of N 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*
- Contribute 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
- Decreased API response time by 20% by measuring and configuring app logging using Salt
- Accelerated developer metrics tracking for managers by building Vue interface for GitHub Enterprise API

PROJECT EXPERIENCE

DragonsTV Graphics Playout Software   **March 2019 – Present**
- Developed TV graphics software using Python Asyncio and WebSockets to transmit real-time data
- Designed animated web graphics with CSS and GreenSock
- Yielded savings of $10,000+ for athletics department by not purchasing commercial graphics software
- Used on broadcasts with NBC Sports Philadelphia and FloSports

gscheme   **July 2021**
- Designed a Scheme-like interpreted programming language and parser using Python
- Includes features such as higher-order functions, lambdas, basic standard library, and file/network IO

Astra   **December 2020**
- Built a Python web framework similar to Flask, with full WSGI support
- Added features such as URL parsing, blueprints, and middleware

SKILLS

- *Programming Languages:* Python, Java, JavaScript (advanced), Bash, C/C++/C#, Go, HTML/CSS (intermediate)
- *Technologies:* Docker, Kubernetes, Salt, Linux, AWS, SQL, Git
- *Frameworks:* Django, Flask (advanced), Express, Vue, Flutter (intermediate)

HONORS AND ACTIVITIES

- Teaching Assistant for CS 164: Introduction to Computer Science
- Dean's Ambassador for College of Computing and Informatics
- Research Lead for Drexel Blockchain
- Social Committee Chair for All-College Choir
- A.J. Drexel Scholarship Recipient, 2018-2023