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IPHIGENIE M. BERA

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EXPERIENCE

Meta   **Summer 2022**
Data Engineering Intern
- Designed and shipped to production a data pipeline that monitors contracts compliance using Presto SQL and Python hence supporting goal metrics in the contracts team.
- Revamped Contracts dashboard and enforced data quality checking in Contracts team data sources.

Northwestern University   **March 2022 – Present**
Computer Science Peer Mentor
- Led tutorial sessions and graded assignments for programming with Python class for 25+ students.
- Held weekly office hours debugging code and teaching best programming practices.

Northwestern Blockchain Group   **September 2021 – May 2022**
Front-End developer
- Developed user interface for Blockchain auction and sales site using React, CSS and API calls.
- Refactored code in Front-end codebase to enforce DRY principles, Error handling, and Web responsiveness.

Northwestern University, Design Thinking and Communication   **March 2021 – May 2021**
Student Engineer
- Designed and Prototyped Individualized Cat feeder system, Feline Feeder, for two cats that prevent them to eat each other's food.
- Employed user requirements, CAD design, and performance testing in making product from scratch.

EDUCATION

Northwestern University, IL   **Expected June 2024**
- B.S in Computer Science with Minor in Data science and Engineering   GPA: 3.5
- **Relevant Coursework**: Machine Learning; Algorithm design and Analysis; Human-Computer Interactions; Data engineering Studio; Engineering Analysis; Entrepreneurship; Economics; Calculus III.

PROJECTS

Korean Drama Dataset (2022).
- Created Dataset of Korean Drama series from web scraped data using Python on a Docker instance and put the dataset in the Third-form Norm form using SQL.
- Have 500+ Downloads from Data science professionals on Kaggle network.

2048 Game (2022)
- Created 2048 Game with C++ using MVC framework with user-action latency less than 1000ms.
- Implemented unit and integration tests for the game and automatic error logging and monitoring.

Random Quote Generator (2021).
- Created a web-app using React that generated random quotes using randomized API calls to a dataset hosted on AWS S2.
- Published web-app on Heroku fully optimized for all screen-size and accessibility.

ADDITIONAL EXPERIENCE AND AWARDS
- **Winner, Depository Trust & Clearing Corporation (DTCC) CODE-A-THON 2022**
- **ACTIVATE entrepreneurship award for emerging startups 2022**
- **Undergraduate research grant for technical analysis fog harvesting surfaces for 2021-2022 AY**
- **Experimental Research study on Water systems in Israel 2022**

LANGUAGES AND TECHNOLOGIES
- C++; C; JavaScript; Python; DrRacket; DSSL; SQL; HTML/CSS; React; Markdown
- Visual Studio; Microsoft SQL Server; Linux/Unix; Azure; GCP; IBM Cloud; AWS; Jupyter Notebooks; Docker