Genevieve Del Prete

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Education

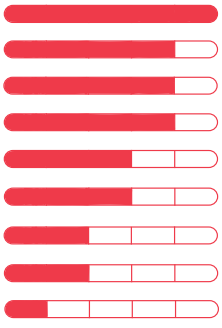
University of California, Berkeley
Berkeley, CA | Aug 2017 – Dec 2020

- B.A. in Computer Science
- GPA: 3.72
- Relevant Coursework: Data Structures, Efficient Algorithms and Intractable Problems, Discrete Math and Probability Theory, Database Systems, Machine Structures, Computer Security, Computer Graphics, Artificial Intelligence, and Principles of Data Science

Skills

Languages

Python
Java
HTML/CSS
SQL
C/C++
Go
JavaScript
Pandas
MongoDB



Tools/Platforms

Git
SciPy (NumPy, Matplotlib)
Scikit-learn
MapReduce
Apache Airflow
Adobe XD

Hobbies & Interests

- Urban Dance (Trained and performed with 2 teams, AFX MO and AFX Boom, in college.)
- Biking
- Baking

Experience

Lyft | Regulatory Reporting Intern
San Francisco, CA | June – Aug 2019

- Pioneered automation effort and designed a script that eliminates manual data report process. On average, saves team 7 hours per automated report per quarter.
- Wrote SQL queries to pull critical data for 10+ ad hoc requests from regulators all over the country.
- Created an entity relationship diagram (ERD) to map column relationships between high use data tables. ERD became part of the team's onboarding resources.

Projects

"MOOCbase" Relational Database (Java)
UC Berkeley | Sept – Dec 2020

- Implemented a relational database in Java.
- Optimized query execution by implementing B+ tree data structures and join and System R algorithms.
- Implemented the ARIES Recovery algorithm to increase database resiliency after a crash.
- Incorporated 2 Phase locking constraints to increase the amount of data transactions running at once and to prevent inconsistent data.

End-to-End Encrypted File Sharing System (Go)
UC Berkeley | Mar 2020

- Designed stateless file sharing client in Go with efficient file storage, loading, and sharing functionalities.
- Utilized symmetric and public key encryption, digital signatures, HMACs, and hash functions to provide confidentiality and integrity while testing against a compromised data storage server and adversarial users.

Data Report Automation (Python, Pandas, Hive, Apache Airflow)
Lyft | July – Aug 2019

- Designed a script for Apache Airflow that builds data reports using Python, Pandas, and Hive, and sends the reports to a secure digital storage location for regulators.
- Authored automation templates and documentation to teach entire team about technologies used.
- Furthered team goal of automating 5 data reports before end of year.