JACQUELINE ABALO

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TECHNICAL SKILLS

Python, Java, JavaScript, C/C++ (familiar), SQL (Sybase), React, Redux, Jest, Django, Mockito, Git/GitLab

WORK EXPERIENCE

Goldman Sachs, Jersey City, NJ
Engineering Associate | Python, Java, JavaScript, React   **December 2021 – Present**
Engineering Analyst   **July 2020 – December 2021**

- Developed and documented self-service RESTful APIs and web UIs for managing the lifecycles of two of the firm's fastest growing cloud and on-premises database products, reducing the time for previously manual tasks from several days to mere hours.
- Designed and implemented an API key management service for a cloud database product, including regular key rotation for security, monitoring and alerting with Prometheus, and visualization with Grafana.
- Created a web UI for filtering database logs by time range and/or regular expressions for 5 different database products, allowing users to quickly investigate and diagnose simple issues without a DBA.
- Added monitoring and alerting for critical cloud database audit log collection jobs, allowing for faster detection and resolution of incidents, and reducing the risk of gaps in audit trails.
- Implemented a privacy inventory management tool to allow for firmwide registration of database fields containing private data, facilitating compliance with digital privacy laws and regulations.
- Redesigned and migrated a database user administration tool from a legacy Perl system, simultaneously eliminating dependency on outdated drivers and addressing user pain points on slowness and poor usability.
- Created a GitLab CI/CD pipeline for deploying the firm's database management web UI on limited resources in a new country to meet a critical business requirement.
- Established new guidelines for software releases across all major applications within the team, allowing for better coordination and communication with stakeholders.

Goldman Sachs, Jersey City, NJ
Summer Analyst | Python, Java, JavaScript, React   **May 2019 – August 2019**

- Developed the control plane APIs and UI required to onboard a cloud database product into the firm, supporting the launch of a new business product.

EPFL Parallel Systems Architecture Lab, Lausanne, Switzerland
Research Intern | Python, C++, OpenMP   **June 2018 – August 2018**

- Developed a deterministic, parallel implementation of an open-source FPGA CAD tool (VPR) and ported various required Python dependencies to C++ for faster runtime.

NYU Tandon School of Engineering, Brooklyn, NY
Student Researcher | C++, CUDA   **June 2017 – August 2017**

- Wrote a CUDA kernel that reduced execution time by 25% for an unmanned autonomous vehicle's simultaneous localization and mapping (SLAM) algorithm.

EDUCATION

New York University, New York, NY   **May 2020**
Master of Science in Computer Science | 3.9/4.0 GPA

- Awarded the Hedwig Kurzbart Master's Fellowship for outstanding performance in a Master's program.

New York University Abu Dhabi   **May 2018**
Bachelor of Science in Computer Science, cum laude | 3.8/4.0 GPA

ADDITIONAL EXPERIENCE

- **Black Engineers Network - Career Development Pillar:** Leading and organizing initiatives that provide the firm's Black engineers with career guidance, mentorship, and opportunities to showcase their work.

- **New Analyst and Intern Committee:** Leading developer training sessions on Git and database products and organizing events such as tech talks and virtual networking to support new joiners' integration.