

## TECHNICAL SKILLS

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

## WORK EXPERIENCE

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### **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and migrated a database user administration tool from a legacy Perl system, simultaneously eliminating dependency on outdated drivers and addressing user pain points on slowness and poor usability.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

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### **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**, Abu Dhabi, United Arab Emirates

*May 2018*

*Bachelor of Science in Computer Science, cum laude* | 3.8/4.0 GPA

## ADDITIONAL EXPERIENCE

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- **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.