Endi Caushi

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EDUCATION

Wentworth Institute of Technology   **Boston, MA**

Bachelor of Science in Computer Science, Minor in Applied Mathematics   April 2022

- ***Overall GPA****: 3.948 / 4.0; **Awards***: Beatty Award, Alumni Award, Dean's List *(All Semesters)*

WORK EXPERIENCE

Akamai Technologies   **Boston, MA**

Software Engineer   September 2020 - Present

- Building new near real-time power utilization pipeline that will help Akamai achieve Sustainability Goal
- Building and designing new analytics architecture that replace legacy pipelines, ensure data governance, analytics at scale, save countless hours of developer productivity, time consuming manual tasks and achieve near real-time results
- Obtained ownership of all data aggregation and reporting jobs and led the resolution of three internal data incidents
- Reduced data pipeline loading times by ~8-10 hours/pipeline and reduced database I/O by 90% by optimizing several correctness unit tests
- Implemented and designed file upload solution for the Documentation team which saved at least $20,000 in Perforce licenses and increased employee efficiency and productivity by at least 1-2hr/user
- Leveraged Presto and Docker to enable integrated querying to different data warehouses which allows ad-hoc queries and templated reports through a custom UI
- Obtained primary responsibility for the department's main internal data analysis and visualization ecosystem
- Implemented data pipeline to process time-series data by integrating 23 million records/day from Akamai's internal pollers using Python and stored processed data in PostgreSQL with TimescaleDB
- Implemented near real-time server power utilization data pipeline by integrating 1.2 million records/hour using Python and stored data in PostgreSQL which led to decreased colo costs and more servers placed per rack
- Refactored PHP backend to more efficiently handle high volume SQL queries allowing more usage and increasing throughput by 40%
- Identified and prevented 4 different SQL/JS injection vectors which prevented potential data leaks
- Improved the security of Akamai's internal OAuth2 provider with Flask and React against CSRF attacks and added client whitelisting

Akamai Technologies   **Boston, MA**

Software Engineer Intern   May 2020 - August 2020

- Developed and released a new page with PHP and React in Akamai's main data analysis system, allowing users to see and understand traffic forecast data to increase planning efficiency by 30%
- Configured MySQL Foreign Data Wrapper into PostgreSQL to enable integrated querying of MariaDB data   from PostgreSQL, which led to fixing field type incompatibilities for some MariaDB fields

TECHNICAL SKILLS

Languages: Python, Java, Ruby, PHP, Perl, JavaScript, SQL, R, C, C#, F#, Dart, XML, HTML/CSS

Frameworks & Platforms: Android, Flask, Rails, Zend(PHP), Spark, React (Antd), REST APIs, OAuth, Parse

Tools: MongoDB, MySQL, PostgreSQL, Presto/Trino, TimescaleDB, Highcharts, ORY Hydra, Docker, Git

Industry Knowledge: Agile / Scrum, CI / CD, TDD, Code Reviews, JIRA, Confluence, Azure, Big Data, Time Series Analysis, Data Warehouse, Data Lake