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 (Valedictorian), Alumni Award, Dean's List *(All Semesters)*

WORK EXPERIENCE

Akamai Technologies   **Boston, MA**

Software Engineer II   September 2020 - Present

Software Engineer Intern   May 2020 - August 2020

- Architecting, designing, and implementing internal **data lakehouse** platform based on **K8s, Apache Spark, Apache Airflow, Object Storage, Trino** to replace legacy pipelines, ensure data governance and allow analytics at scale
- Migrated internal Data Exploration and Visualization Platform and upgraded PHP5.5 to PHP7.4, using **Docker** and **K8s** leading to a **100x** speed-up in page load times
- Leading data architecture development on Akamai's Network Partner Portal by translating and aligning business logic with simple **SQL** queries spanning **200+** tables
- Proactively identified potential challenges and opportunities for improvement through regular interactions with teams and stakeholders, implementing effective strategies to address their concerns and enhance overall satisfaction
- Led the resolution of 3 data incidents and obtained ownership of **200+ data pipelines**
- Reduced pipeline loading by **8-10 hours/pipeline** and reduced database I/O by **90%** by optimizing SQL queries and multiple **ETL** scripts
- Reduced runtime of **25+ table** aggregation pipeline from **1.5 days to 6 hours** by identifying and refactoring **perl** and **SQL** code bottlenecks.
- POC-ed MediaWiki file upload extension 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**
- Deployed **Trino as a Service** on **Docker Swarm** to enable ad-hoc querying and reports of multiple data warehouses
- Obtained primary responsibility for the department's main internal data analysis and visualization ecosystem
- Implemented server power utilization pipeline by integrating **300k records/5 min** using **Python, SQL, TimescaleDB** which **identify** hardware issues, **decrease** colo-costs, efficient **capacity and sustainability planning**
- Refactored PHP backend to efficiently **amortize allocations** that handle **high volume** SQL queries which increased query throughput by **40%**
- 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%**

TECHNICAL SKILLS

Languages: Python, Go, SQL, Perl, Bash, Rust, Java, Ruby, PHP, JavaScript, R, C, C#, F#

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

Tools: K8s, Docker, Apache Airflow, MariaDB, PostgreSQL, TimescaleDB, Trino

Industry Knowledge: Agile / Scrum, CI / CD, TDD, Code Reviews, JIRA, Confluence, Big Data, Time Series, Data Warehouse, Data Lake, Data Lakehouse, Linux, Object Storage

PUBLICATIONS

S. Othman, S. Alshalwi and E. Caushi, *"Sentiment of EmojiSets: How Emoji Sequences Improve Sentiment Cognition," 2022 IEEE 21st ICCI*CC*, Toronto, ON, Canada, 2022, pp. 72-79, doi: 10.1109/ICCICC57084.2022.10101644.