

Endi Caushi

Boston, MA | (857) 222-3063 | me@endicaushi.com | linkedin.com/in/endicaushi | endicaushi.com

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 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
- 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
- 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%**
- Improved security of internal reporting tool by identifying and prevented 4 SQL/JS injection vectors that could lead to potential data leaks
- Improved the security of Akamai's internal OAuth2 provider with Flask and React against CSRF attacks and added client whitelisting
- 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/ICCI*CC57084.2022.10101644.