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EDUCATION

Northeastern University

Khoury College of Computer Sciences

Candidate for Bachelor of Science in Computer Science and Business Administration

Relevant Courses: Object-Oriented Design, Algorithms and Data, Database Design, Foundations of Data Science, Fundamentals of Computer Science, Discrete Structures, Financial Data Analytics with Python, Information Visualization

Awards and Activities: Dean's List (all semesters), FMA National Honors Society

Alpha Phi Omega (National Service Fraternity), Intramural Volleyball, Hong Kong Students Association

Boston, MA

Sept 2017 - Present

Expected Dec 2021

GPA: 3.81/4.0

COMPUTER KNOWLEDGE

Languages:	Python, Go, Java, PostgreSQL, SQL, HTML, JavaScript
Software:	Jet Brains, Postman, GitHub, Git, Jupyter Notebook
Databases/Systems:	Google Cloud Platform, Kubernetes, Grafana, Prometheus, BigQuery, Bigtable, Spanner, Apache Airflow, Docker, MySQL

PROFESSIONAL EXPERIENCE

Mercari US

Software Engineer Co-op

Boston, MA

Jan - Jun 2021

- Operated as a Junior backend engineer on the Marketing Technology team to improve user acquisition and reacquisition efforts in growth marketing using Python and Go
- Implemented and deployed dataflow Airflow DAGs. One increased user lookup efficiency for the CRM team and others solved for a more scalable approach to consolidate various recommenders for the ML team
- Built and deployed a microservice server to load test read and write throughput in Bigtable as a storage solution. Also designed a new Dataflow template using Java to transfer data from BigQuery to Bigtable to assist load testing
- Created Prometheus metrics to track prohibited words on the Mercari app and graphed it on a Grafana dashboard. This metric allowed the user acquisition team to identify misconfigured blacklist words that blocked certain ads from being published. Since then, active ads rose 9.75% from 41M to 45M in 3 months.
- Backfilled 40 million user email tokens and ran a python script to scrape out user IDs that had errors such as DB connection errors during the backfill and addressed them in production

Promobox Inc

Software Engineering Co-op

Boston, MA

Jan - Jun 2020

- Contributed to the production of paid ads including full development of Facebook-ad customizations which immediately saw a positive impact for our customers and brought \$250k in local ads for the company in the first 3 months
- Created/modified 16+ different endpoints from stored procedures (Postgres) to database access layer to client functions (Go) that increased company functionality
- Created DataDog synthetics to monitor status and learned about metrics, alerting, logging, and reporting

Hong Kong Systems Limited

Software Engineer Intern

Hong Kong

Jul - Aug 2019

- Implemented stocktake options using Java into the company mobile android application
- Created 15 stored procedures using SQL for projects regarding data collection for facial recognition attendance systems

PROJECTS

Philadelphia Food Delivery Data Visualization

Sep - Dec 2020

- Worked alongside a food delivery logistics client to leverage their data to provide insight and analysis on delivery cost efficiency using JavaScript and D3. Created website with data visuals and graphs that enabled restaurants to make better operational decisions that will benefit their profit margins

Movie Recommendation App

Jul - Aug 2020

- Created a movie recommendation app that recommends movies to users based on actors and genres selected. Then recommends additional movies that the user may like based on other actors that were in the recommended listings. Web scraped the IMDb database locally, then used python to create a Flask API to connect front end website to the database

SKILLS AND INTERESTS

- Languages: English, Cantonese, Mandarin
- Interests: Traveling, Volleyball, Basketball, Snowboarding, Weights Training, Foodie