ERNEST LIAN

Aspiring Computer Scientist

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EXPERIENCE

Backend Developer Shopify

♥ Montreal, QC (Remote)

• Online Store Editor Team

Software Engineer

StackAdapt

m Jan 2020 - Apr 2020

♀ Toronto, ON

- Developed the ad campaign backend workflow in Rails, integrating the ability to bulk edit simultaneously for 3000+ live campaigns
- Overhauled campaign flight RESTful API schema and database migrated 20,000+ active records
- Designed reusable navigation bars, filters for metrics, and search components using React and Redux for campaign tracking
- Implemented progressive loading to ensure successful fetch of audience segments for campaign geographical targeting
- Refactored user API permissions, allowing slack integrations

Software Engineer

Lifton by ADP

May 2019 - Aug 2019

- New York City, NY
- Directed the development of a real-time performance analytics interface using **Node.js** for analyzing HTTP Requests, improving the efficiency of client application processing by 53%
- Redesigned ETL's logging architecture, impacting 50,000+ **Kibana** log entities, reducing average triaging time of production issues by 46%
- Triaged critical module vulnerabilities within the ETL pipeline by deploying service patches, mitigating security gate risks

Backend Developer

Bespoke Metrics

Sep 2018 - Dec 2018

♥ Toronto, ON

- Designed an advanced search feature in **Python** using the **Elasticsearch** engine, decreasing querying latency by 39%
- Integrated a subcontractor watchlist, optimizing user experience of prequalification processing in 2000+ companies
- Developed a Flask based Docker microservice to consume and publish RabbitMQ events asynchronously, improving performance by 21%

Software Developer

OpenText Corporation

m Jan 2018 - Apr 2018

♥ Waterloo, ON

 Built integration tools to improve the user experience by streamlining the development process, enhancing software installation time by 27%

SKILLS

Languages



Tools and Frameworks



PROJECTS

Spotilytics | May 2020

 Developed a Spotify analytics platform using React and Material-UI, integrating scikit-learn with Python, to recommend artists following a tempo and energy based analysis on requested music

Moodsic | Dec 2018

 Performed sentiment analysis using Indico's API and Python to mine through Spotify playlists, recommending mood based music in a Flask application

Real-time Canvas | Jun 2018

 Adopted the Model View Controller strategy to implement a sketching canvas in Java which supports animations, dynamic layout, 2D graphics and widget libraries

EDUCATION

Bachelor of Computer Science - Business Option

University of Waterloo

 Relevant Courses: Operating Systems, Data Structures, Algorithms, Computer Networks, Database Management, Compilers

HOBBIES

 Foosball, Embroidery, Travelling, Collecting Vinyls