

Devin Yizhe Lu

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WORK EXPERIENCE

HCLTECH | BACKEND DEVELOPER INTERN

May 2023 - Aug 2023 | Python, Google Cloud, Terraform, Kubernetes, BigQuery

- Enhanced the processing and visualization of clickstream data analytics by integrating Apache Superset and Snowplow Analytics into Google Cloud using Terraform and Kubernetes.
- Trained a recommendation engine by applying content-based and collaborative-filtering algorithms for implicit and explicit feedback in Python.
- Implemented a FastAPI microservice that defines endpoints for users to interact with the engine.

STATISTICS CANADA | DATA ANALYST INTERN

Sep 2022 - Dec 2022 | R, RShiny, SQL

- Expedited the manual processing of federal financial data by applying roll-up algorithms on the input data set in R.
- Designed an interactive RShiny application to automate the data manipulation process to be used by the division.
- Maintained data integrity by extracting federal data from the Cansim API to apply domain-specific error checks.

OPERTO | SOFTWARE DEVELOPER INTERN

Jan 2021 - Apr 2021 | React, PHP, Typescript, Twig, jQuery, PostgreSQL

- Increased stakeholder engagement by designing aesthetic UI features for the company's dashboard used by thousands of property managers worldwide.
- Improved system infrastructure by establishing new endpoints in the company's core API.
- Boosted customer satisfaction by executing SQL queries on the company's production database to service client requests.

PROJECTS

DATAPREP | SOFTWARE SYSTEMS CAPSTONE PROJECT

Sep 2021 - Apr 2022 | Python, Dask, Jinja2

- Collaborated with the SFU Database Group to contribute to the open source Python library Dataprep.
- Developed statistical reports and plot visualizations to better support researchers and data scientists by implementing new API's in the EDA module.
- Reduced code runtime by 50 percent through parallel computations using Dask.

S-TALK | DEVELOPER

Jun 2020 - Jul 2020 | C

- Engineered a multi-threaded chat application that can link two users together to send/receive messages.
- Utilized mutexes and conditional variables to protect shared resources and to prevent deadlocking.
- Constructed sockets in C and connected the two applications via UDP.

INSPECTAURANT | SCRUM MASTER

Feb 2020 - Apr 2020 | Android, Java, XML

- Directed an agile team of four to develop an android restaurant application that provides all past inspection reports of a selected restaurant from an online database.
- Applied the Google Maps API to display the user's location and restaurants.
- Internationalized the application to provide support for both English and French.

SKILLS

SOFTWARE ENGINEERING

Python • C/C++ • Java • Javascript • PHP • R • SQL • HTML • Git • Flask • React • Selenium • Android • JUnit • Spring Boot • RESTful • Agile

LANGUAGES

Fluent in English and Mandarin Chinese
Conversational in French

EDUCATION

SIMON FRASER UNIVERSITY | BSc IN COMPUTER SCIENCE

2018 - Present, Expected Dec 2023 | Burnaby, BC