

Devin Yizhe Lu

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SKILLS

SOFTWARE ENGINEERING

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

LANGUAGES

Fluent in English and Mandarin Chinese
Conversational in French

WORK EXPERIENCE

BROCK SOLUTIONS | SOFTWARE SUPPORT DEVELOPER

Mar 2024 - Sep 2024 | C#, .NET, SQL, Affinity

- Provided assistance to the Support Team by addressing urgent, escalated cases with timely and effective solutions.
- Resolved technical errors by investigating stored procedures and refining the backend code in C#.
- Utilized SQL to conduct thorough root cause analyses on diverse cases and issues across multiple Windows environments.

HCLTECH | BACKEND DEVELOPER INTERN

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

- 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

- Automated my boss's job by developing an R program that processed his large datasets from 5 months to 5 minutes.
- Extracted data from the Cansim API and expedited the processing of data by applying roll-up algorithms.
- Designed an interactive front-end RShiny application for ease of use and access to be used by the rest of the division.

OPERTO | SOFTWARE DEVELOPER INTERN

Jan 2021 - Apr 2021 | React, Redux, Jira, 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 development of the open source Python library Dataprep.
- Developed a generalized statistical differential report that compares the statistics of two or more dataframes to help better support data scientists and machine learning engineers.
- Reduced code runtime by 50 percent through parallel computations using Dask.

INSPECTAURANT | SCRUM MASTER

Feb 2020 - Apr 2020 | Android, Java, XML, Gradle, Maven

- 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.

EDUCATION

SIMON FRASER UNIVERSITY | BSc IN COMPUTER SCIENCE

2018 - 2023 | Burnaby, BC