

Bruce Shaopeng Liu

shaopenglui@gmail.com | 343-987-2107

linkedin.com/in/shaopeng-liu-953982195 | github.com/Bruce-liushaopeng

Education

Carleton University

Sept 2017 - Present

Bachelor of Software Engineering

Courses: Java, JavaScript, C, C++, Data Structures, Design Pattern, Algorithms, Operating Systems,

Skills

Languages: JavaScript, Python, Java, C, C++, PHP, Kotlin, SQL, MatLab,

Technologies: React.js, Node.js, Django, MongoDB, Jest, AWS, MS Azure, Bash, Docker, Linux

Tools: IntelliJ, VS code, Android Studio, Agile/Scrum, Jira, Bitbucket

Professional Experience

March Networks

Ottawa, ON

Software Engineering Intern - Client Application NG Team

Sept 2021 - Dec 2021

- Design and implement Transaction Service Time report using **React**.
 - Designed, wrote, and tested UI components to implement pre-existing back-end functionality using JavaScript Frameworks including React, mobx and Ant Design.
 - Implements Cube.js query to fetch data from **AWS** Redshift.
- Upgrading existing features to make code more efficient and maintainable
 - Reducing component rendering time by adding logic to prevent duplicate backend fetching of the same content.
 - Refactoring god-class by separating its functions to smaller classes and rewriting **Jest** test for each class to ensure no function is broken.

Environment Canada

Ottawa, ON

Data Scientist Intern - Data Management Service Team

Jan 2021 - Aug 2021

- Support data migration of a cloud-based Geospatial system with **Azure** and **Python**.
 - Design and implemented ETL pipeline to download, transform and filter data with python script.
 - Develop Python script to extract data from remote API and built report using **powerBI**
- Wrote, tested, and deployed python webhook to automate **SQL** server injection.
 - Worked closely with data architect and third-party software company to design Tabular Database based on the business need.
 - Deployed python scripts on MS Azure to listen to the third-party software and update SQL server

Projects

Stock Trading App

- Designed and implemented the stock app for practicing stock trading skills.
- Used **React** for front-end, **Express** for the backend, and **MongoDB** for database

Risk Game

- Created the multiplayer world-conquering game in **Java** following OOP principles and **MVC** pattern with save/load feature.
- Fully support **AI** players that can logically interact with human players.

Bank Statement Pdf-Excel translate

- Developed a **Python** script for a local accountant to extract banking information from PDF format bank statement to excel.
- Filtering noises on the pdf and have a translation correctness rate above 99%

Texas Instrument Controller

- Using **bit-level C** programming to control LED blinking
- Developed UI interface with Python to take user input as instruction