

# Leiber Lyu

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## HIGHLIGHT

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### Personal Website

[www.leiberlyu.com](http://www.leiberlyu.com)

## SKILLS LIST

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- C/C++, Python, Java, Perl
- HTML, CSS, JavaScript, TypeScript
- Azure DevOps, Docker, Jenkins, CI/CD, YAML
- React, Node.js
- SQL, AWS, Git, Linux, Bash
- SwiftUI, iOS Development

## PROFESSIONAL EXPERIENCE

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### Impero Software (Permanent)

Aug 2023 - Present

Software Engineer

Canberra

- Responsible for the development and maintenance of the ContentKeeper network monitoring product, which is primarily deployed in K-12 schools in North America. This product enables parents and schools to supervise and manage students' internet usage. My Primary development languages are **C/C++**, **SwiftUI**, with deployment and testing environments on both **Linux** and **Windows**.
- Responsible for filtering policy data migration, transferring data from a **JSON** database to a **DBM database**. Designed the format and reading methods for the DBM database, as well as designed security measures to prevent **SQL injection** attacks. Also handled data synchronization issues between the master and worker nodes in the database.
- Upgrade and iterate on the interaction content between the Data Center and the user end. Enhance the **HTTPS** requests for new users by incorporating location information, allowing the data center to generate a registration ID that includes the user's location. Additionally, ensure backward compatibility in the data center to accommodate access requests from older versions.
- Participated in the development of the CKPortal **iOS** application. Deployed the apple-app-site-association file on the server to activate the verification of **universal links**. When users click on invitation links, the client parses the URL, retrieves the activation code field, decodes it, and obtains the original activation code. Designed and completed the user interface to allow users to manually input invitation links for verification in case of app redirection failure from the invitation link.
- Participated in the frontend migration from **Perl** to the **React** framework, optimizing the display content of statistical report pages, and implementing new features such as email sending and exporting to Excel. Designed and implemented the ParentPortal control interface, providing parents with the ability to manage and control the permissions of their children's devices.
- Responsible for migrating code to Azure and transitioning from **SVN** to **Git** for version control. Developed and implemented code submission workflows, archived documentation on Wiki, and provided code submission training to other team members
- Complete all tasks assigned to me during each sprint, including bug fixes, new feature development, documentation writing for testing, and engage in effective communication with the Quality Assurance (QA) team to facilitate testing during the QA phase.

## Baidu (Nasdaq: BIDU)

Nov 2021 - Apr 2022

Backend Engineer (Intern)

Beijing

- Backend Engineer Intern in Baidu(like Google in China). Participated in personalized notification push of "Baidu Tieba" and "Baidu search" apps (with monthly activate users of 40 million and 600 million, respectively)
- Responsible for creating and maintaining the automated report's webpage for Baidu Tieba. Create a critical metrics calculation algorithm in **C++** and deploy **Bash** scripts on a **Linux** server to auto-generate core metrics such as click rate, exposure rate, etc. Routinize statistical metrics in days and calculate fluctuation percentage. Store the result in a database to support the front-end page for display.
- Create auto email and internal communication alerts to send emails and instant messages to team members when the core metric wave range is too extensive by deploying bash scripts and **C++** algorithms to auto-generate user feedback statistics.

## Didi Global Inc. (NYSE: DIDI)

May 2021 - Nov 2021

Software Engineer (Intern)

Beijing

- Backend Engineer in Didi(Chinese version of Uber). Participated in the department of Community e-commerce department.
- Responsible for the maintenance of distributed database, responsible for database stability maintenance, detecting and ensuring that user data is automatically updated to the database every hour, deploying detection scripts on internal data platforms, and handling detection exceptions.
- WeChat applets development. Involved in the development of mobile phone based WeChat applets. Participated in the creation of a user issue feedback module using **HTML**, **CSS** and **JavaScript**.

## PERSONAL PROJECTS

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### Auto Deployed WebsiteV1.0

<https://github.com/Leiber-CivilComEngineer/Jenkins-Sonarqube-Docker-AWS>

- This project sets up a personal website using **AWS** infrastructure, leveraging **EC2** instances to run **SonarQube**, **Jenkins**, and **Docker**. The code is managed on GitHub, with updates automatically triggering code checks, integration, and deployment.

### Auto Deployed WebsiteV2.0

<https://github.com/Leiber-CivilComEngineer/PersonalWeb2.0>

- This upgraded automated personal website solution uses **Node.js** for the runtime environment, **Express** as the web framework, and **PM2** for process management. Code is automatically deployed on an **AWS EC2** server via **GitHub Actions**, with **AWS Route 53** directing my domain to the server.

## EDUCATION

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Australian National University

Jul 2021 - Jun 2023

Master of Computing