

Leiber Lyu

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HIGHLIGHT

Personal Website

www.leiberlyu.com

SKILLS LIST

- 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

Impero Software (Permanent)

Aug 2023 - Present

Software Engineer

Canberra

- Responsible for developing and maintaining ContentKeeper, a network monitoring product 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++** and **SwiftUI**, with deployment and testing environments on both **Linux** and **Windows**.
- Handled the migration of filtering policy data, transferring data from a **JSON** database to a **DBM** database. Designed the format and reading methods for the DBM database, along with security measures to prevent **SQL injection** attacks. Also managed data **synchronization** between master and worker nodes in the database.
- Upgraded and iterated on the interaction content between the Data Center and the user end. Enhanced **HTTPS** requests for new users by incorporating location information, enabling the data center to generate a registration ID that includes the user's location. Ensured backward compatibility in the data center to accommodate access requests from older versions.
- Contributed to the development of the CKPortal **iOS** application. Deployed the apple-app-site-association file on the server to activate 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 migrating the frontend 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 their children's device permissions.
- 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.
- Completed all tasks assigned during each sprint, including bug fixes, new feature development, and documentation writing for testing. Engaged 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 active users of 40 million and 600 million, respectively)
- Responsible for developing and maintaining the automated report webpage for Baidu Tieba. Implemented a critical metrics calculation algorithm in **C++** and deployed **Bash** scripts on a **Linux** server to automatically generate core metrics such as click rate and exposure rate. Established a routine for statistical metrics calculation on a daily basis, including fluctuation percentages. Stored the results in a database to support **frontend** display.
- Developed automated email and internal communication alerts to notify team members of significant fluctuations in core metrics. Achieved this by deploying **bash scripts** and **C++** algorithms to automatically generate user feedback statistics.

Didi Global Inc. (NYSE: DIDI)

May 2021 - Nov 2021

Software Engineer (Intern)

Beijing

- Backend Engineer at Didi (China's Uber equivalent), involved in the Community E-commerce department. Responsible for maintaining distributed databases, ensuring database stability, and automating hourly user data updates. Deployed detection scripts on internal data platforms and managed detection exceptions.
- Contributed to the development of WeChat Mini Programs, focusing on mobile-based applications. Participated in creating a user issue feedback module using **HTML**, **CSS**, and **JavaScript**.

PERSONAL PROJECTS

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

Australian National University

Jul 2021 - Jun 2023

Master of Computing