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   Aug 2023 - Present

Software Engineer (Permanent)   Canberra

- *CKWEB-Filter*

Responsible for developing and maintaining CKWEB-Filter, a network monitoring product primarily deployed in K-12 schools in North America and Australia. 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.**

1. Designed a new relational **SQL database** for user filtering rules, transitioning from JSON-based local storage. Addressed **SQL injection** risks, implemented data center synchronization and backup during software startup, and developed an automatic recovery mechanism using backup data.

2. Manually parsed incoming payloads from frontend **network requests**, re-serialized the data, and updated different databases or provided appropriate responses based on various business scenarios. Constructed responses to return the desired data for frontend display.

3. 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.

4. Iterated on **auto-compile** and **auto-deploy pipelines**, enabling one-click compilation and deployment via shell scripts after code updates. Built pipelines in **Azure DevOps** to trigger automated checks upon code updates.

5. Proactively improved the company's **WIKI documentation** infrastructure by writing comprehensive technical documentation for all my work and creating detailed documentation for previously undocumented important features.

- *CKPortal-iOS APP*

Contributed to the CKPortal **iOS app development**. Deployed the apple-app-site-association file for universal links verification. Implemented URL parsing to retrieve and decode activation codes from invitation links. Designed and developed a UI for manual invitation link input, ensuring verification in case of redirection failure.

Baidu (Nasdaq: BIDU)   Nov 2021 - Apr 2022

Backend Engineer (Intern)   Beijing

- Backend Engineer Intern at Baidu. Contributed to personalized notification push for "Baidu Tieba" and "Baidu Search" apps, with 40 million and 600 million monthly active users, respectively.

- Developed and maintained the automated report webpage for Baidu Tieba. Implemented a critical metrics calculation algorithm in **C++**, utilizing B**ash scripts** on a Linux server to automate core metrics generation (e.g., click rate, exposure rate). Established daily statistical calculations, including fluctuation percentages, and stored results in a database for frontend display support.
- Developed automated email and internal communication alerts to notify team members of significant fluctuations in core metrics. Implemented **Bash scripts** and **C++** algorithms to automate the generation of user feedback statistics.

Didi Global Inc. (NYSE: DIDI)   May 2021 - Nov 2021

Software Engineer (Intern)   Beijing

- Backend Engineer at Didi in the Community E-commerce department. Responsible for maintaining distributed databases, ensuring database stability, and automating hourly updates of user data. Deployed detection scripts on internal data platforms and managed detection exceptions.
- Contributed to WeChat Mini Programs development, specializing in mobile-based applications. Played a key role 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