Ruifan Wang

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EDUCATION

University of Pennsylvania **Graduation:** May 2023
Master of Science in Engineering in Computer and Information Science **GPA:** 3.66

Lehigh University **Graduation:** May 2021
Bachelor of Science in Computer Science and Business **GPA:** 3.72

EXPERIENCE

Full Stack Developer July 2023 - Present
Federal Home Loan Bank of Dallas *Dallas, TX*
- Upgraded the frontend of an user management website that manages 500+ user profiles and applications from Angular 7 to Angular 15, enhancing usability and performance for over 50 active internal users
- Transformed a legacy paper-based user access request system to a process benefiting a community of 800+ member banks, utilizing Adobe Form and Azure Function to automatically create and update user access, achieving a 95% reduction in turnaround time
- Developed an interactive table for the user access request system, enhancing all stakeholder communication and transparency of the request's state. Crafted API endpoints for seamless data integration, and implemented user-specific identification for indication of different task completions

DevOps Engineer Intern May 2022 - August 2022
Federal Home Loan Bank of Dallas *Dallas, TX*
- Automated Production Deployment Plan (PDP) in Azure DevOps using Power Automate from Microsoft, which saved 25% of the original workload and alleviated dependency between developers and the DevOps team
- Monitored and debugged the PDP automation flow throughout the Software Development Life Cycle

Information Technology Intern August 2020 - April 2021
Minerals Technologies Inc. *Easton, PA*
- Created Perl Script to automate the process of encrypting financial files with PGP, which included download to local machines and upload to JP Morgan through SFTP; used by 1000+ files / 3-month

PROJECTS

PennCloud | Distributed System, C++, HTTP Server, TCP August 2022 - December 2022
- Designed and built a small cloud platform including features such as webmail service and key-value storage service which is similar to Google Bigtable
- Simulated distributed systems environment with a load balancer for multiple instances of frontend servers as well as multiple backend servers with a master backend node
- Achieved fault tolerance and consistency with primary-based replication, checkpointing & logging in disk

PubMigrations | React, Javascript, Express.js, Node.js, MongoDB, MySQL August 2022 - December 2022
- Created a React web app that allows users to explore intriguing info regarding researchers migrations
- Added an interesting visualization with react-force-graph that displays migration direction and magnitude between countries for the top 100 researchers with the most papers published
- Optimized queries by 80% with indices on the joined features (multiple tables with 10+ million rows)

CITeams Hackathon Project | JavaScript, MongoDB, Slack Bolt January 2022 - January 2022
- Created a slack plug-in to assist students in finding teammates for class projects by allowing them to create posts and automatically create channels for teams
- Awarded with most creative project in MCIT 2022 Winter Hackathon (1 out of 60+ participants)