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

TECHNICAL SKILLS

Certification: Microsoft Certified: Azure Fundamentals
Languages/Tools: Python, Javascript, Java8, C++, Perl, C, SQL, PowerShell, React, Django, Power Automate, Azure

PROFESSIONAL EXPERIENCES

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
- 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
- Developed a SQL Agent Job Orchestrator by utilizing Power Automate and creating procedures in SQL database, to establish dependencies between jobs, and achieve higher maneuver power for developers

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

Teaching Assistant & Research Assistant   January 2020 – May 2021
Lehigh University, Dept. of Computer Science and Engineering   *Bethlehem, PA*
- Integrated NUMASK, a lock-free concurrent skipped list data structure to SetBench with the implementation of memory reclamation technique
- Tutored 20+ students for Operating Systems and Data Structure & Algorithms courses on core concepts

PROJECT EXPERIENCES

PennCloud | *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's 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 WebApp 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 of rows)

CITeams Hackathon Project | *JavaScript, MongoDB, Slack Bolt*   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)

PennLobby | *React, JavaScript, Express.js, Node.js, MongoDB*   August 2021 – December 2021
- Developed a MERN-based single-page application for UPenn students to create groups, share posts, comment on posts, and send synchronous private chat
- Built responsive frontend using React and backend with Express.js & Node.js for user CRUD operation, authentication, group management, group filtering & sorting, and profile management

Career Fair App | *Python, Postgres, MSSQL, Django, Azure*   January 2020 – December 2020
- Developed a career fair web app for Innovative Systems Inc. to enable applicant registration
- Utilized the google spreadsheet API to enable auto data upload from spreadsheet to the database