

KUNYANG XIE

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EDUCATION

University of Waterloo, Waterloo, Canada Master of Engineering in Software Engineering, GPA: 88/100	Sep. 2021 - Dec. 2022
Univ. of Electronic Sci. and Tech. of China, Chengdu, China Bachelor of Engineering in ECE, GPA: 3.8/4	Sep. 2017 - Jun. 2021
University of Glasgow, Glasgow, UK BEng in EEE with First Class Honors, GPA: 19.2/22	Sep. 2017 - Jun. 2021

EXPERIENCE

Software Engineer Perle Systems Limited	Jan. 2023 - Aug. 2024 <i>Markham, Canada</i>
<ul style="list-style-type: none">Developed and maintained the Web Manager, a user-friendly web interface for router configuration. Utilized jQuery and Bootstrap for the front-end, and C language along with SQLite for the back-end, enhancing system stability and optimizing performance.Managed the Cloud Router project, creating a cloud-based platform for remote router access. Developed the front-end using React, and the back-end with SpringBoot, enabling efficient and secure remote management of router settings, deployed and maintained the project on AWS.Contributed to the development of a standalone router project, enabling users to access the router web manager without a physical device. Packaged the project using Docker for easier distribution and deployment.Designed and implemented the router's cloud proxy in Python using the requests library. This proxy facilitated secure data exchange between the router and the cloud platform, and was efficiently deployed on the router systems.	
Software Engineer Tsinghua University - Sichuan Energy Internet Research Institute	Mar. 2021 - May. 2021 <i>Chengdu, China</i>
<ul style="list-style-type: none">Built a Gantry-style 3D printer, used and optimized open-source Marlin firmware, adapting and configuring it to meet the specific requirements of the printer design.Implemented the temperature sensor feedback mechanisms using PID controllers, ensuring preciser temperature controlling, thereby leading to a notable 10% decrease in the adhesion rate of modeling materials.	

PROJECTS

Student Management App for Consultant	Jan. 2024 - Apr. 2024
<ul style="list-style-type: none">Architected and deployed a real-time Student Management App by containerizing the front-end (Vue 3) and back-end (SpringBoot) services using Docker, and orchestrating them on a Kubernetes cluster to ensure high availability, scalability, and efficient load balancing.	
Turbo Wallet - Money Management App	Jan. 2022 - Apr. 2022
<ul style="list-style-type: none">Led the back-end development to build a web server based on Express.js invoking RESTful APIs to respond the requests from the front-end, the project ranked top 3% in the contest.Designed and implemented Non-relational database MongoDB to manage the income and expenditure records of users.	

SKILLS

Languages	Java, Python, TypeScript, C/C++, SQL, Go, MATLAB, HTML, CSS
Frameworks	SpringBoot, Express, Vue, React, Flask, Django, Mocha, PyTorch
Tools & Skills	Linux, Git, Docker, Kubernetes, Nginx, AWS, Redis, MySQL, PostgreSQL, MongoDB, Kafka