LINYUN LIU

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Motivated and detail-oriented individual with strong skills in Computer Science. Eager to learn and contribute as a tech enthusiast, with a demonstrated ability to quickly learn new technologies, software, and programming languages. Patient, creative and dedicated, with a unique interest in filmmaking and a passion for continuous growth. Proficient in Linux, MacOS, and Windows environments.

EDUCATION

Bachelor of Science | Trinity Western University | *2019 - 2024*
Natural & Applied Sciences: **Computing Science Major**
Media & Communication: **Film Studies Concentration**

EXPERIENCES

Full-Stack Developer (Freelance) | Trinity Western University | *Sep. 16 – Present*
Freelance Job founded by the university faculty to develop a building navigation for a Kiosk Machine
Full-Stack Developer (Freelance) | *May 1st – Present (Maintenance & Update)*
Developing a full-stack website (https://artism.life) from scratch, integrating web development technologies such as NGINX, Express.js, MySQL. Hosted on Linode Server. The site allows users to apply and submit artworks for an annual art event.

Autonomous Rover Research (Internship) | ParkTech.com | *May 13rd – Aug 23rd*
Collaborated with a team of four to research and develop an autonomous rover designed to return books to the library for students and professors. Utilized various technologies including embedded systems with Raspberry Pi, engineering principles, machine learning, computer vision, Robot Operating System (ROS), SLAM, Python, and more. https://linyunliu.com/AIRobotDocumentation/

Communication Assistant (Internship) | Safe Fleet | *Feb 1st – Apr 12th, 2023*
Created and edited special effects for promotional videos for police body camera products using Adobe Premiere Pro, After Effects, and Illustrator.

(Summer Camp) Assistant | Luoxiao Taekwondo School | *Summer 2017 & Spring 2016*
1.Volunteered at a children's summer camp, assisting in teaching life skills and fostering independence. Helped organize events and manage scheduling. 2.Assisted in maintaining order among participants at a provincial Taekwondo competition. Provided care for contestants and communicated with concerned parents.

RECENT ACTIVITIES & PROJECTS

Physical Computing | Trinity Western University | Sep 6th – Dec 31st, 2023
Learning and making various projects using ESP32, microPython. Working with microchips, circuits, IoT devices. A website that contains my achievements: https://linyunliu.com/PhysicalComputing/

Bioinformatics Research| Trinity Western University | Jan 10th – Apr 14th, 2023
Researching with peers on constructing phylogenetic tree from protein clusters using maximum likelihood method to reveal evolutionary relationship between Saccharomyces Cerevisiae, Schizosaccharomyces Pombe and other Fungi species using Google Cloud Computing GitHub: https://github.com/LinyunLiu/Bioinformatics

Contestant | International Collegiate Programming Contest (ICPC) | Sep 12nd – Feb 25th, 2023
ICPC (International Collegiate Programming Contest) training, participated in the Pacific Northwest Regional Contest on February 25th

Contestant | ICPC | March 6th, 2021
Participated in the 2021 ICPC (International Collegiate Programming Contest) Pacific Northwest Regional Contest. Our three-person team came in 6th place in Canada.

SKILLS

Computer Science
- ❖ Python, Java, C#, C++, Swift, (Comparative Programming Languages)
- ❖ Data Structure & Algorithm
- ❖ Full Stack Development, JavaScript, PHP, HTML, CSS
- ❖ Express.js, React, Flask
- ❖ Database Management System (SQL, MongoDB)
- ❖ API Integration, Cloud Computing
- ❖ Machine Learning, Computer Vision
- ❖ Embedded System, Physical Computing, IoT Devices (ESP32, Raspberry Pi, MicroPython)
- ❖ Software Engineering
- ❖ Artificial Intelligence Algorithms
- ❖ Shell, Git, Docker
- ❖ UX/UI, Android Studio, Xcode
- ❖ Problem Solving, Mathematics
- ❖ IT knowledge in general

Filmmaking
- ❖ Cinematography, Photography
- ❖ Digital post-production
- ❖ Digital Recording
- ❖ Screenwriting, Film History
- ❖ Final Cut Pro, Logic Pro
- ❖ Adobe Premiere Pro, After Effects
- ❖ Fine Arts