

Yuanyuan Zhou

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Portfolio: <https://yuanyuanz07.github.io/portfolio/>

Education

Nova Scotia Community College (NSCC) – Diploma in IT Programming 2024.09 – Present

Relevant Courses: Object-Oriented Programming, Web Development, Database Management, System Analysis & Design, Client-Side Programming, Linux Administration., etc.

Dalhousie University – Computer Science (Transferred) 2021.01 - 2024.08

Relevant courses: Data Structures and Algorithms, Java Programming, Web Design, Software Engineering, etc

Ningbo University of Technology – Information Technology and Science (Transferred) 2019.09 - 2020.08

Relevant courses: C Programming, Database Fundamentals, Probability and Statistics, Discrete Mathematics, etc

Skills

Technical Skills:

- Programming Languages: Java, C, JavaScript, Python, C++
- Web Development: HTML, CSS, React.js, Node.js, Express.js, Koa.js
- Database: SQL, MongoDB
- Version Control & Tools: Git, GitHub, Agile Development
- Operating Systems: Linux, Windows
- Software Development: Object-Oriented Programming, System Analysis & Design

Soft Skills:

- Team Collaboration
- Problem-Solving
- Adaptability
- Time Management

Campus Experience

Robotics Innovation Laboratory of Ningbo University of Technology 2019.10 - 2020.04

- Learning and training: In the laboratory, I received systematic undergraduate training, including robot technology, programming languages, operating systems, 3D printing and more. Through training, I can use C, C++, Python Linux system and 3D printing technology.

Project 1: Autonomous Obstacle-Avoidance Vehicle

- Led a 3-person team to design and assemble a 3-wheeled autonomous vehicle using Arduino components, enhancing team collaboration and leadership skills
- Integrated infrared, ultrasonic, and basic vision recognition for real-time navigation.
- Programmed robot control algorithms in C++ and Python, implementing key-based encryption.
- Successfully defended our project in front of faculty and judges, improving public speaking and problem-solving abilities.
- Won first place in the university robotics competition, successfully defending the project.

Project 2: Smart Door Lock System

- Collaborated with a teammate to design a smart door lock, utilizing 3D-printed components for assembly.
- Developed and fine-tuned the vision recognition system for facial authentication.
- Integrated Arduino-based control mechanisms to enhance security and access management.

Google (Beijing) – Software Development Intern (Remote) 2023.03 – 2023.04

- Developed and optimized web applications using Node.js, Express, and Koa.js.
- Built RESTful APIs for a music streaming service, implementing user authentication, playlist management, and track streaming.
- Implemented a MongoDB-based database structure for music metadata storage and optimized query performance.
- Integrated third-party music APIs using Axios for real-time data retrieval.
- Implemented file streaming for handling audio playback.
- Gained hands-on experience with Git version control, Agile workflows, and API debugging.

Extracurricular experiences

Volunteer for beach conservation and marine animal rescue

- As a beach conservation and marine animal rescue volunteer, I know the importance of protecting marine life. Under the guidance of marine experts, I was actively involved in the rescue of stranded marine life. Whenever I find stranded marine life, I work quickly with team members to provide them with timely rescue.
- In addition, I am also responsible for testing the marine environment. At the same time, I also actively participate in the clean-up of garbage on the sea surface and work together with volunteers to contribute to the marine environment.
- This experience made me more aware of the importance of protecting the marine environment and taught me how to work collaboratively with my team members to protect the marine ecology.

Member of the Women's Basketball Team, Ningbo University of Technology

- Competed in the university championship, leading the team to third place.
- Strengthened teamwork, strategy planning, and game execution.
- Developed resilience and adaptability through intensive training.