

# Lian Zhu

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## EDUCATION

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### Portland State University

*Bachelor of Science, Major in Computer Science, Minor in Mathematics*

*GPA: 3.98/4.0*

- **Relevant Coursework:** Data Structures & Algorithms, Discrete Structures, Algorithmic Thinking, Calculus III, Intro to Linear Algebra, System Programming & Architecture

## PROJECTS

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### Roblox Group Manager Service

**June 2024 - December 2024**

- Worked with a trio to build a ROBLOX group management service, handling 300+ members
- Created a serverless Python API, launched to DigitalOcean, ensuring scalable and reliable backend operations
- Implemented a Python Discord bot for seamless backend interaction and user engagement
- Enhanced Discord data visualization using the PIL library and managed data with SQLite3

### Barbell Path Tracker

**February 2024 - June 2024**

- Experienced the software development life cycle through a project by planning, designing, implementing and testing a vision recognition program
- Developed a Python script using OpenCV to track the path of a barbell and calculate the deviation from the center of the path
- Presented at the Hillsboro Airshow, with a goal of showcasing the project itself and the process of creation

### CRUD Application

**March 2023 - July 2023**

- Implemented a create, read, update, delete application in C++ using a linked list data structure, with functionalities such as adding, deleting, and updating tasks, and a user-friendly interface

## WORK EXPERIENCE

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### City of Hillsboro Shute Park Aquatic & Recreation Center

**Mar. 2023 – Present**

*Front Desk Member*

*Hillsboro, OR*

- Administrative work with data entry using ActiveNet, a cloud-based event management system including but not limited to:
  - Memberships involving ActiveNet & handling paperwork
  - Enrollments into lessons, classes, and activities
  - Managed a waitlist for multiple activities with very high precision
  - Registration for new patrons and account inquiries
- Worked with and helped a diverse group of coworkers/customers
- Maintained an efficient workflow in a fast-paced environment

## EXTRACURRICULAR

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### Oregon Associates Talented And Gifted — Oregon Program

- “The OATAG/TAG is a program for students who have qualified by ‘demonstrating exceptional aptitude or exceptional achievement’” - [www.oatag.org](http://www.oatag.org)

## SKILLS & INTERESTS

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- **Skills** C++, Python, Git, Data Structures & Algorithms, Bilingual (English & Spanish)