

# Adeland Luo

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## EDUCATION

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### University at Buffalo

*Bachelors of Science in Computer Science*

Buffalo, New York

*May 2026*

## EXPERIENCE

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### Sameasy Design & Print

*Graphic Design Assistant*

Brooklyn, New York

*Jul 2021 – Aug 2023*

- \* Designed and edited advertisements for over 200 local businesses utilizing Adobe Photoshop.
- \* Created custom merchandise and printed large banners for clients with RIP Queue and Graphtec.

### MakerState

*STEM Instructor*

New York, New York

*Feb 2022 – Aug 2022*

- \* Taught 10 cohorts of younger students basics in Scratch and how to create functional code alongside programming basics for objects and robotics in Lego Mindstorms.
- \* Instructed 15 classes of 20 students on designing and printing 3-D models in TinkerCAD.
- \* Crafted STEM curriculum, featuring TinkerCAD modeling projects, Scratch programming problems, and informative lectures on fundamental programming principles to challenge students.

## PROJECTS

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### OmniSense | (MATLAB, Stable Diffusion, Adobe Photoshop)

- \* Challenge winning hackathon project that utilizes MATLAB simulations of software-defined radios emitting monostatic radio frequency waves.
- \* Aimed at assisting visually impaired users by informing them of any possible obstructions or objects approaching them in a 360 degree radius.

### InnerMosaic | (TensorFlow, React Native, Flask)

- \* Hackathon project integrating AI with traditional journaling methods to give users insightful feedback on their journal entries.
- \* Trained learning module on 1473 journal entries to match words with emotions utilizing BERT.
- \* Model outputs a mood-sphere based on found sentiments to help users visualize their emotional landscape.

### Local | (TypeScript, Flask, React)

- \* Hackathon project implementing an AI learning module that matches users with ~1000 local companies and startups in the Buffalo-Niagara area.
- \* Features an interactive map of company locations and interview processes to assist users.

### Trading Models | (Python, Pandas, Zipline)

- \* In-progress Python project focused on modeling market data and formulating trading strategies for backtesting on historical American financial markets.
- \* Aimed at gaining insights into the impact of volatility and risk factors on decision-making processes during strategy development.

### Visual Novel | (Python, Ren'Py, Stable Diffusion)

- \* In-progress novel game written in Ren'Py driven by user input with 13 varying endings based on user decisions.
- \* Over 500 differing character and background arts generated utilizing NovelAI image diffusion engine version 2.

## SKILLS

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**Frameworks & Programming Languages:** Proficient: Python | Familiar: Java, C++, HTML, TensorFlow, React, Flask, MongoDB, Docker, Pandas, Autodesk, Microsoft Office, Adobe Photoshop.

**Languages:** English, Chinese.