

HanChen (Evan) Li

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PROJECTS

Evanli.me / ongoing / Personal Website

- Collection of projects and photography
- Made using **HTML**, **CSS**, **JS**, and **Bootstrap**

Kaggle Data Analysis / ongoing / Dataset Analysis

- @Evanli1999 (<https://www.kaggle.com/evanli1999/kernels>)
- E.g. Titanic Dataset: **88% prediction accuracy** of which passengers survived the titanic accident using **perceptron neural network**

“Surprisingly Effective” / 2017 / Chess AI

- Reduced move search time by **53%** through **alpha-beta implementation** in **Java** and **Python**
- Currently implementing a neural network to train through unsupervised reinforcement learning using an **AWS** deployment.

Blocks / 2017 / RayTracing Engine

- Implemented **DDA algorithm** to render 3D-like scenes
- Custom texture, map layout, adjustable field of view

XiaoPix / 2016 / Single Pixel Camera

- Used two motors and photoresistor to take black and white image
- Programmed in **Arduino**, **Java**, **C++**

Last Stand Defense / 2015 / Tower Defense Game

- Implemented game logic backend and user interface in **Java**.
- Created custom mouse-driven user interface using **Jframe**.

Rummi-Kyubey / 2015 / Computer Card Game (RummiKube)

- Developed object oriented structure to organize game elements in **Java**
- Mouse driven GUI based on **Jframe**

EXPERIENCE

Piano Instructor

Self-employed — *May 2013 - June 2017*

- Taught over 20 students from RCM level 1 to 8

Print Designer

The Reckoner of MGCI — *Sept 2014 - Apr 2016*

- Used **Adobe InDesign** and **Illustrator** to design publication layout.

LANGUAGES AND TOOLS

Languages:

Proficient: Java, C, Scheme, HTML, CSS, LATEX, MATLAB

Working: SQL, AJAX, JavaScript, Python, C++

Tools:

AWS (EC2/S3), Tomcat, Spring, Pandas, NLTK, Scikit-Learn, Tensorflow, Node, React, Ubuntu (bash)

AWARDS

IOAA 2016: Represented Canada at the 10th International Astrophysics and Astronomy Olympiad.

AP Scholar with Distinction: Awarded for academic excellence on 4 AP exams

RCM ARCT: Associate of the Royal Conservatory, Awarded *First Class Honours with Distinction*

INTERESTS

Photography/Editing

Music: playing/teaching piano

Badminton: casual and varsity

EDUCATION

University of Waterloo,
Computer Science, 2022

3.77 Cumulative GPA