Eddie Zhuang

Full Stack Software Engineer

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EXPERIENCE

COMPUTER SCIENCE CLUB | Club Leader
June 2020 – Current | Pierre Elliott Trudeau High School

- → Research and teach computer science topics such as Web Development, Game Development and Artificial Intelligence
- → Present lessons in front of up to 90 students
- → Collaborate with fellow executives to lead a club and plan lessons

MATHEMATICS CLUB | Club Leader
June 2021 – Present | Pierre Elliott Trudeau High School

- → Use logic and problem-solving skills to explain mathematical problems to club members
- → Collaborate with other club leaders to plan out lessons and organize the club

ROBOTICS CLUB | Club Leader
August 2021 – Present | Pierre Elliott Trudeau High School

- → Collaborate with team members to design and build VEX robots
- → Work with other club leaders to plan lessons about robotics programming and engineering concepts

PROJECTS

AIR HOCKEY AI | C#, Unity ML-Agents
https://github.com/EdZ543/Air-Hockey-AI
- → Designed and trained a machine learning model in a custom 3D environment using Proximal Policy Optimization
- → Integrated the model into a game using the Unity Game Engine

PERSONAL WEBSITE | React, Next.js, Tailwind CSS, Firebase, Vercel
https://www.eddiezhuang.com/
- → A personal website and blog
- → Designed and built from scratch using React/Next.js
- → Blog post views stored with Firebase

AWARDS

2021	Certificate of Distinction	Canadian Computing Competition
2021	Silver	United States of America Computing Olympiad
2021	Honour Roll	Waterloo Galois Math Contest
2020	Certificate of Distinction	Canadian Intermediate Math Contest
2019	First Place in Ontario	Ontario Skills Competition
2017	First Place in Ontario	Ontario Skills Competition

SKILLS

PROGRAMMING

Proficient:
Python • C++ • C# • HTML • Javascript • CSS

Experienced:
Java

LIBRARIES/FRAMEWORKS

Tensorflow • Node.js • React • Next.js • Tailwind CSS • Bootstrap

TOOLS/PLATFORMS

Unity • Firebase • Github • Heroku • Wordpress

CERTIFICATIONS

- → Machine Learning by Stanford University
- → Algorithms, Part I by Princeton University
- → Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning by DeepLearning.AI

EDUCATION

PIERRE ELLIOTT TRUDEAU HIGH SCHOOL
Sept 2019 - Present | Markham, Ontario

- → Specialist High Skills Major in Information and Communications Technology
- → Courses: Introduction to Computer Science, Introduction to Computer Programming