

Joyce Truong

Sophomore in Artificial Intelligence, Carnegie Mellon University

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Who am I? My passions include studying brain-machine and human-computer interfaces, neurophilosophy, and UI/UX design. In my free time, I love playing poker, watching basketball, and creating digital paintings. Currently, I'm exploring programming with computer vision and using OpenCV modules in gesture recognition gaming apps.

Education

Carnegie Mellon University Pittsburgh, PA Aug 2020 - Present

- School of Computer Science and School of Art
- B.S. in Artificial Intelligence | Minor in Media Design | GPA: 3.77, Dean's List with High Honors

Lester B. Pearson United World College Victoria, BC Aug 2018 - Jun 2020

- International Baccalaureate Program
- 1 of 100 selected internationally, Higher Level Math, Philosophy, Chemistry, and Physics
- Thesis: Simulation of Artificial Consciousness Using Artificial Neural Networks (Philosophy)

Projects

MemoRe: Dec 2020 - Feb 2021

Created a note-taking desktop app that enables users to visualize their notes in various interconnected graph patterns using Python, SQL, and graph theory algorithms.

Multibiometric & Visual Evoked Potential Dashboard Jan 2021

Programmed an integrated security dashboard that includes RFID, fingerprint, jaw clench and blink pattern, and gesture authorization using a MUSE headband, Arduino and Python.

Skills

Programming:

5000+ lines:
Python,
Java, C

1000+ lines:
Raw HTML/CSS/
JavaScript,
WordPress/PHP

Robotics:

Arduino

Design:

Adobe Photoshop,
Illustrator, InDesign

Other:

Terminal, Vim,
Bash, LaTeX, Git

Learning:

PyTorch, SQL

Experience

Teaching Assistant

15-112: CS Fundamentals

Pittsburgh, PA

Jan 2021 - Present

- Currently teaching recitations for 30 students, proctoring quizzes and exams, organizing large group events, and mentoring 8 500+ line student term projects for the 3rd semester
- Grading lead in charge of reviewing exams, creating rubrics, leading 50 TA grading sessions, and processing regrades for the course of 550+ students

Public Relations

Asian Student Association

Pittsburgh, PA

Sep 2020 - Present

- Elected freshman representation to engage and represent 50+ students in the class of 2024 through organizing monthly events and attending weekly board meetings
- Currently the public relations chair in charge of planning weekly general meetings for 100+ members, communicating weekly announcements, and organizing large recruitment events

Lab Assistant

CMU Robotics Institute

Pittsburgh, PA

Oct 2020 - Jan 2021

- Coded a social navigation benchmarking tool for robots as part of the Human and Robot Partners Lab at Carnegie Mellon University
- Employed Python libraries such as NumPy and SciPy to code the asynchronous robot navigation mode in which robots learn to navigate with real-world obstacles in real time

Co-Leader

Social Innovation Club

Victoria, BC

Sep 2018 - Mar 2020

- Worked with 12 social entrepreneurs to create a project allowing mass campus grocery delivery, saving 3 hours/person weekly while reducing fuel-based environmental footprint
- Created and managed the ordering platform website using HTML/CSS/JavaScript
- Raised \$1000 for charities to fund future college scholarships

Leader

Computer Science Club

Victoria, BC

Sep 2018 - Mar 2020

- Taught 14 inexperienced students from 10 different countries weekly by creating 15 Python, HTML/CSS/JavaScript, and Arduino seminars and 4 projects
- Led the creation of a database auto-sorting Python program that organized work schedules
- Saved administrative staff 72 hours of work based on client interviews

Innovator

The Knowledge Society

Toronto, ON

Oct 2017 - Jun 2019

- Selected as one of the top 15% of applicants for the first-ever program that teaches teens with high potential about exponential technologies, networking, and moonshot mindsets
- Part of the top 3% within the program selected to demo creations and speak at world-scale tech conferences, such as TribalScale's TakeOver Innovation Conference and C2 Montréal
- Created modules on work with multibiometrics and visual-evoked potential research