

# CHRISTOPHER LAM

christpherlam365@gmail.com | +1 (774) 450-5310 | linkedin.com/in/chrislam365 | github.com/clam365 | US CITIZEN

## EDUCATION

### WORCESTER POLYTECHNIC INSTITUTE | WORCESTER, MA

August '22 - May '26

- Bachelor of Science in Computer Science/Data Science **3.69 GPA**
  - Dean's List Fall 2022, Presidential Scholarship, Charles O. Thompson Scholar
- **Relevant Coursework:** Object Oriented Design Concepts, Systems Programming Concepts, Foundations of CS, Discrete Mathematics, WPI Means Business, Video Production, Digital Imaging and Art

## TECHNICAL SKILLS

- Technical Skills: Python, Java, C, C++, HTML, CSS, Racket, CAD
- Creative Tools: Figma, Webflow, Photoshop, After Effects, Premiere Pro, G Suite, OBS

## PROJECTS

### YOLOv5 AI OBJECT DETECTION AND RECOGNITION

- Developed object detection program by implementing Ultralytics's YOLOv5 algorithm to train and analyze 20 possible objects for recognition using *Python, OpenCV, Panda, Numpy, and Google Colab*.
- Model evaluations led to an average of a 79% confidence rate.
- Jupyter Notebook holds comprehensive data frames and analysis.

### AI - POWERED SHOULDER PRESS REPETITION COUNTING SYSTEM

Aug '22

- Engineered a custom deep learning model leveraging frameworks like *MediaPipe* and *OpenCV*, training it to accurately detect and track the movements of shoulder press exercises using *Python*.
- Analyzing body movements using techniques such as pose estimation on 6 keypoint detections, enabling the system to accurately identify the start and end of each shoulder press repetition.

### SLACK REMINDER CHATBOT

Aug '22

- Developed a custom Slack Bot using *Python* and the *Slack API* to enhance team communication and collaboration.
- Designed and implemented interactive features for the Slack Bot, including real-time notifications, automated responses, and data retrieval functionalities.

### FIGHTING THE KORAIL HOUSING CRISIS

Aug '22 - Dec '22

- Led a multidisciplinary team of 4 in utilizing *Sketchup* to develop 2 detailed architectural drawings and 5 3D model renderings of an apartment complex aimed at addressing the housing crisis in the Korail Slums of Bangladesh.
- Collaborated closely with architects and professors to understand the unique challenges and incorporate sustainable and cost-effective design principles by a 30% decrease in construction costs.
- Showcased models to engineering/architectural professionals conveying design and technical components.

## WORK EXPERIENCE

### UNIVERSAL EDUCATION INITIATIVE

Merida, Venezuela

#### Head of Video Production + WebDeveloper

MAY '23-Present

- Collaborating with 4 cross-functional teams of 3 to design a central website for the organization using *Webflow* with integrated features for seamless language translations.
- Led a team of 3 video production professionals in the creation of educational content focused on computer science and technology tailored to the needs of the Venezuelan education system.

## LEADERSHIP AND ACTIVITIES

- Sigma Alpha Epsilon Diversity, Equity, and Inclusion (DEI) Chair
  - Organized cultural events with organizations such as the Hawaii Cultural Association raising \$2,300 for humanitarian aid and updated the Mass Delta ByLaws.
- SASE Social Committee
  - Developed 2 creative event concepts and themes that catered to the interests of organization's members, resulting in increased attendance by 38%.
- Vietnamese Student Association Member