CHRISTOPHER LAM

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EDUCATION

WORCESTER POLYTECHNIC INSTITUTE | WORCESTER, MA **Aug '22 - May '26**

- Bachelor of Science in Computer Science: **3.7 GPA**
  - Dean's List Fall 2022, Presidential Scholarship, Charles O. Thompson Scholar
- **Relevant Coursework**: Algorithms, Software Engineering, Object Oriented Design Concepts, Machine Org. & Assembly, Systems Programming Concepts, Discrete Mathematics, Digital Imaging and Art

TECHNICAL SKILLS

- Technical Skills: React.js, TypeScript, Express, Java, Python, C, C++, JavaScript, TailwindCSS, HTML, Racket
- Creative Tools: Figma, Webflow, Adobe Creative Cloud, G Suite, OBS

WORK EXPERIENCE

MASS GENERAL BRIGHAM WOMEN'S HOSPITAL **Worcester, MA**

Lead Front End Software Engineer **Jan '24 - Mar '24**

- Served as lead frontend developer in a dynamic 11 man team using the Agile methodology over 8 weeks, spearheading task management, UML diagrams, GitHub version control, and user stories on Trello.
- Designed and delivered a comprehensive cloud software application prototype seamlessly integrating an intuitive UI from Figma mockups, facilitating user-friendly experience while streamlining hospital pathfinding and service request modules.
- Utilized React.js, TypeScript, TailwindCSS, Express, PostgreSQL, AWS, Prisma ORM, and Docker for application.

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 and filmed *Python* content courses.
- Collaborated with **federal Venezuelan** & **American** embassy organizations to create STEM education to students in Merida, Venezuela, expanding educational opportunities to disadvantaged countries.

PROJECTS

YOLOv5 AI OBJECT DETECTION AND RECOGNITION **Oct '23**

- Developed object detection program by implementing Ultralytic'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 '23**

- 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 post estimation on 6 keypoint detections, enabling the system to accurately identify the start and end of each shoulder press repetition.

SLACK REMINDER CHATBOT **Aug '23**

- 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.

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