Christopher Lam

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EDUCATION

WORCESTER POLYTECHNIC INSTITUTE | WORCESTER, MA   **Aug '22 - May '26**
- Bachelor of Science in Computer Science: **3.70/4.00 GPA**
  - Dean's List Fall 2022 + 2023, Presidential Scholarship, Charles O. Thompson Scholar
- **Relevant Coursework**: Algorithms, Software Engineering, Object Oriented Design Concepts, Machine Org. & Assembly, Systems Programming Concepts, Operating Systems, Digital Imaging and Art

TECHNICAL SKILLS

- Technical Skills: React.js, Next.js, TypeScript, Angular, Express, Java, Python, C, C++, C#, JavaScript, Git, Racket, PostgreSQL, TailwindCSS, HTML5, CSS3
- Creative Tools: Figma, Framer Motion, Webflow, Adobe Creative Cloud

WORK EXPERIENCE

AIR FORCE CIVILIAN SERVICE   **Hanscom AFB, MA**
Computer Science Intern   **MAY '24 - AUG '24**
- Analyzed and restructured personnel tracking data into a usable format, which facilitated the development of a machine learning algorithm that improved response time to inquiries by 30%.
- Developed and deployed an interactive dashboard using PowerBI to visualize operations data; enhanced decision-making processes for 10+ team members, saving an estimate of 5 hours per week in data analysis tasks.

UNIVERSAL EDUCATION INITIATIVE   **Merida, Venezuela**
Head of Video Production + Web Developer   **MAY '23 - Present**
- Orchestrated design and development of the organization's central website with a team of three using Webflow.
- Partnered with **federal Venezuelan & American** embassy organizations to create STEM education to 38 students in Merida, Venezuela, expanding educational opportunities to disadvantaged countries.

FREELANCE WEBSITE DEVELOPER   **MAY '23 - Present**
- Presented custom web solutions for various clients, utilizing React, Next.js, and TailwindCSS to create responsive, visually appealing, and user-centric websites that meet unique needs.

PROJECTS

WPI MQP CAPSTONE: IQP DATA COLLECTION APP
- Devised a prototype application supporting 1,200 juniors each year for launch in the 2025-2026 academic year.
- Served as the UI/UX and Frontend Developer on a 5-person team, creating Figma mockups during product development phase and implementing responsive user interfaces executing Agile Scrum methodology.
- Conducted **user research and usability testing** to gather feedback and refine visual appeal and navigation, achieving a **88% satisfaction rate**, with the majority of users rating the app 8 or higher on a **10-point scale**.

MASS GENERAL BRIGHAM WOMEN'S HOSPITAL
Lead Front End Software Engineer
- Served as lead frontend developer in a **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 software application prototype in AWS servers, seamlessly integrating an intuitive UI from Figma mockups, streamlining **hospital pathfinding of 100+ nodes** and **5 service request** modules.

SPOTIFY CLONE
- Engineered an interactive music streaming platform resembling Spotify's functionality, utilizing Next.js to deliver seamless navigation and responsiveness; achieved the goal of replicating core features within an 10-week project timeline.
- Leveraged Supabase, Stripe API, PostGreSQL to set up and maintain backend database schemas and authentication.

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.