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 + 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, Express, Java, Python, C, C++, JavaScript, Racket
- Creative Tools: Figma, Framer Motion, Adobe Creative Cloud, OBS

WORK EXPERIENCE

AIR FORCE CIVILIAN SERVICE   **Lexington, MA**
Data Analyst Intern   **May '24 - Aug '24**
- Contributed to the development of a machine learning algorithm by providing and organizing personnel tracking data.
- Designed and implemented an interactive dashboard using PowerBI to visualize operations data and predict outcomes over time.

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.

PROJECTS

WPI MQP CAPSTONE: IQP DATA COLLECTION APP
- UI/UX and Frontend Developer of a 5 man team, creating application Figma mockups and implementing a responsive frontend with React and Shadcn UI for WPI students to use on their IQP projects.
- Executed the Agile Scrum methodology and worked closely with backend engineers and advisors to ensure a cohesive design and functionality.
- Conducted user research and usability testing to gather feedback and refine visual appeal and navigation.

SPOTIFY CLONE
- Built a full stack replica of Spotify using Next.js to create a responsive and dynamic UI through Tailwind.
- Leveraged Supabase and PostGreSQL to set up and maintain backend database schemas and authentication.
- Integrated Stripe API to handle premium subscriptions of users.

YOLOv5 AI OBJECT DETECTION AND RECOGNITION
- 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.

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%.