Wu Li

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EDUCATION

University of Massachusetts Lowell   **Lowell, MA**
Bachelor of Science in Computer Science   *May 2025*

- Coursework: Probability & Statistics, Data Structures & Algorithms, Discrete Mathematics, Calculus 2, Web Development, Object-Oriented Programming (C/C++), Database

WORK EXPERIENCE

Cambridge Strength   **Arlington, MA**
Freelance Developer   *March 2025 - May 2025*

- Developed and deployed a custom WordPress theme for a local gym, streamlining member access and on-site communication for more than 240 concurrent members.
- Integrated PushPress to securely manage payments, memberships, and client data, enabling seamless billing and automated account syncing.

Microcenter   **Cambridge, MA**
Inventory Specialist   *July 2018 - July 2021*

- Optimized operational workflows by overseeing inventory cycle counting processes.

PROJECTS

VisionScan AI - *AI/ML, AWS, JavaScript, React, TensorFlow.js, Node.js, Express.js, Git*

- Designed and deployed a full-stack AI web application using React and TensorFlow.js to perform real-time object detection through webcam with over 80 plus object categories.
- Integrated device-specific detection logging and dashboard analytics with CSV export, achieving 5-second interval auto-refresh, deployed on Vercel and Render for scalable cloud access.

Retnify - *Medical Imaging, ML, Python, PyTorch, ResNet-50, VGG16, OpenCV, NumPy*

- Built a CNN-based model to classify 84,484 OCT retinal images into 4 disease categories, achieving 97.2% validation accuracy and 0.972 weighted F1 score.
- Implemented class-weighted loss, data augmentation, and Grad-CAM visualizations to improve model interpretability and performance across a 10/10/80 validation/test/train split.

SmartShopper - *Firebase, Bootstrap, JavaScript, Google API, Git*

- Developed and deployed SmartShopper, a full-stack app for creating grocery lists and finding the cheapest nearby deals using Firebase, Bootstrap, and Google Maps API.

SKILLS & TECHNICAL TOOLS

Languages: JavaScript, TypeScript, Python, C, C++, Java, OCaml
Web Technologies: React, Next.js, HTML5, CSS3, Tailwind CSS, Bootstrap, WordPress
Technologies: Git, REST APIs, MongoDB, Docker, Firebase, AWS, NoSQL, MySQL, PyTorch
Developer Tools: GitHub, Figma, Railway, VSCode, Linux, NPM, Jupyter Notebook