Clarence Maor M. Barzilay

maorbarzilay8@gmail.com • (562) 588 6365 • linkedin.com/in/maorbarzilay/ • https://github.com/mawerb

EDUCATION

B.S. Computer Science Honors | California State University, Long Beach (CSULB) **August 2024 – May 2028**

- GPA: 4.0

Related Coursework: Data Structures, Computer Architecture & Organization, Object Oriented Programming, System Programming, Intro to Software Engineering

TECHNICAL SKILLS

Languages: Python, Javascript, C++, SQL (Postgres), C, HTML/CSS

Frameworks & Libraries: Django, React, TailwindCSS, Flask, NumPy, Pandas, Matplotlib, Tensorflow, OpenCV
Gen AI tools: GPT, Cursor, Claude, Gemini

PROJECTS

TriageFlow (CalHacks 12.0) | **github.com/ethan-ngo/calhacks2025** **October 2025**

- Built an AI triage system using **Flask** and **React** that analyzes patient data and injury images, dynamically reordering queues and alerting nurses to deteriorating conditions in order to address ER wait time inefficiencies
- Streamlined nursing intake by deploying a conversational agent and SMS chatbot for symptom capture, enabling continuous patient monitoring without manual check-ins
- Standardized triage scoring by orchestrating **Fetch.ai UAgents** with prompt-engineered **Claude** models, generating consistent ESI-guideline recommendations that support clinical decision-making

BeachMaps.org | github.com/mawerb/BeachMap **June 2025 – September 2025**

- Developed a **full-stack** web application with **200+ active users** for mapping events and landmarks in CSULB using **React** frontend and **Django REST API** backend with **PostgreSQL** database
- Deployed on **Fly.io** for scalable and reliable cloud hosting in production
- Implemented **JWT authentication system** and admin panel enabling administrators to create, modify, and manage landmark data such as images, building type, properties, and overview
- Built **RESTful API** endpoints to handle **CRUD** operations for events and landmarks, integrating with interactive map visualization using **Leaflet.js**

Recycle Or Not (UCR RoseHacks '25 Winner) | github.com/joshmre/computer-vision-webapp **January 2025**

- Developed **web app** that detects recyclable objects in real-time using a camera collaborating with a team of 4
- Built AI-powered solution with **TensorFlow** for ML, **YOLOv8** for object detection, **OpenCV** for real-time computer vision, and **React** for web-app implementation

RESEARCH EXPERIENCE

Researcher | CSULB College of Engineering [Dr. Jelena Trajkovic] **December 2024 - Present**

- Researching **gait authentication** using machine learning models and previous experiment data on active sensors in shoes to determine gait variance to create **automated testing framework** for gait authentication
- Utilizing **TensorFlow**, **Pandas**, and **NumPy** for **data preprocessing** and **model training**
- Interpreting benchmark datasets, monitoring and **validating model performance**, and testing strategies of **4 different ML models**(RNN, LSTM, BiLSTM, CNN+RNN) to ensure reproducibility and accuracy
- Documenting test methodologies, findings, and improvements for dynamic warping tests using **CSV and Excel**

Artificial Intelligence Researcher | Independent Project **January 2024 – January 2025**

- Researched correlation between AI use and student GPAs in Metro Manila by conducting a Likert-scale based survey questionnaire with **105 participants**, analyzed data utilizing **Spearman's Rank Correlation**
- Developed survey utilizing Google Forms and distributed to participants using snowball sampling and email
- Authored an academic research paper and **presented findings at 2 conferences - De La Salle University Manila** (QS World Top 2 in the Philippines) and the **International Academic Forum (IAFOR) in Honolulu**

LEADERSHIP

CSULB Undergraduate Research Association, Vice President of Finance **August 2025 – Present**

- Managing **$1000** annual budget, ensuring accurate budgeting and responsible fund allocation

CSULB Society of Asian Scientists & Engineers, Cultural Chair **August 2025 – Present**

- Hosting **5+ technical workshops**(*e.g., Leetcode workshop*)for emerging computer scientists and engineers.
- Organizing bi-weekly cultural events to improve cultural awareness and diversity amongst emerging engineers