NHU NGUYEN

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EDUCATION

California State University, Long Beach | **Long Beach, CA**
B.S. in Computer Science | Minor in Cybersecurity | GPA: 3.9 | *Expected May 2025*
Coursework: Data Structures, Algorithms, Discrete Math, Statistics, Machine Learning, Object Oriented Applications (Java), System Programming (C++), Database Fundamentals
Awards/Honor: President's Honor List 2021–Present, Tau Beta Pi Honor Society Member

Udemy, The Complete 2023 Web Development Bootcamp | *July 2023 - Current*
Cornell University, online certificate in Machine Learning Foundations | *August 2023*

PROFESSIONAL EXPERIENCE

DirectTV | **El Segundo, CA**
AI Studio Project | Python, PyTorch | *August 2023 – Present*
- Collaborating in a team of 4 on **Google Collab** to develop a CV model from basic frames to detect sports players and objects on a soccer field to enhance sports replays by tracking that specific player through replay.
- Leveraging **PyTorch** to build a class to retrieve data from a JSON file and transform the images.
- Utilizing Faster R-CNN Object Detection model to train with transformed and filtered data.

American Product Distributors Inc. https://americanproductdistributor.com/ | **Westminster, CA**
Web Designer | HTML, CSS, jQuery | *August – September 2023*
- Designed and developed a fully 4-pages functional website from scratch using **HTML** and **CSS**
- Implemented a responsive and user-friendly interface using CSS **media queries**, **flexbox**, gridbox, and viewport.
- Built a clickable image with different sections by creating image maps with **jQuery** and jQuery plugins.
- Deployed website on Netlify with a custom domain on Godaddy through DNS records.

PROJECTS

Movie Theaters Data Modeling Course | *NoSQL, JSON, MongoDB* | *September - December 2022*
- Collaborated to build a database system using **NoSQL**, **JSON** and **MongoDB** for a movie theater enterprise that consisted of films, showings, and actors.
- Guided discussions about implications of one-to-many associations (few, many, and squillions) and **embedding vs referencing** in Mongo to create schemas that will correctly validate JSON documents.
- Enabled quicker Mongo queries and searches in the context of real-life movie theater systems by selectively implementing **denormalization and redundancy** in the schemas.

Dungeon and Monsters Game Course | *Java* | *March 2022 - April 2022*
- Led a team of two to create a text-based Dungeon and Monsters project game.
- Refactored code and fixed logical/syntax errors, making the code more accessible to my group mates.
- Implemented concepts such as arrays, hashmaps, interfaces, and singletons to create Hero and Enemy objects by
- defining the class relationships between those objects.

LEADERSHIP EXPERIENCE & ACTIVITIES

Women in Computing | *August 2022 – Present*
President
- Leading a board of 11 officers to engage 300+ club members and increase membership by 20% through a Sisterhood mentorship program, internship opportunities, and socials.
- Launching CSULB's first CS outreach program to expose middle and high schoolers to programming with robots.
- Partnered with faculty members and industry leaders such as **Google** and **Southern California Edison** to host career-related events, resume reviews, interview preparation, networking, etc.
- Co-led our 3rd annual hackathon, **MarinaHacks**, to success with 50 participants, 5 sponsors, and $1000 in prizes.

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, Javascript | **Databases:** SQL, JSON, MongoDB
Web Development: HTML/CSS, Node.js/Express/EJS | **Operating Systems** Windows, Mac OS
Tools: Discord/Slack/Teams, Visual Studio Code, Git/GitHub