

Robert Velaya

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EDUCATION

San Jose State University

San Jose, CA

BS in Computer Science 3.75 / 4

Graduation Date: May 2024

- **Organizations:** SJSU Computer Science Club
- **Relative Coursework:** Machine Learning, Object-Oriented Programming, Python, MySQL, Programming Paradigms, Data Structures and Algorithms

Skyline College

San Jose, CA

AST in Computer Science - 3.85 / 4

Graduation Date: May 2022

- **Awards:** Magna Cum Laude
- **Organizations:** Phi Theta Kappa Honor Society, Outreach Center, Transfer Center, Counseling Department, Equal Opportunities Program, Skyline Computer Science Club, Promise Scholars Program

WORK EXPERIENCE

LensCrafters

Santa Clara, CA

Team Lead

November 2020 - Present

- Engaged in daily coordination between managerial staff and doctors in order to discuss strategy plan for conquering the weekly progress of the business
- Lead a 4-person team every shift in achieving sales goal and implementing a strategy plan for ensuring seamless customer experience where professional communication and coordination are utilized
- Participated in managerial meetings that discuss 4-week store metrics, associate performance, and medical conversion rates daily

Base11 Internships - University of California, Irvine

Intern

February 2019 - May 2020

- Streamlined numerous projects that involved knowledge of data structures, python, and CAD design
- Created and presented visual slides that illustrate the projects worked on to 20+ interns and SI leaders to endorse projects completed and problems solved
- Collaborated with a group of 3 interns in the planning of projects, where strategy, code architecture, and code design were tackled

PROJECTS

EventRadar

- Built a Flask web application with SQLite, using SQLAlchemy to manage user accounts and events
- Implemented secure user authentication, utilizing SHA-256 hashing for password storage and verification
- Integrated Ticketmaster API, allowing users to access and explore local events

SJSU Foodie App

- Collaborated with a group of 3 developers in designing the architecture of the project, coding the application, optimizing search algorithms, and creating visual UI for improved user experience
- Led group meetings that consisted of weekly goals, project expectations, and project deadlines while promoting communication to develop a collaborative environment.
- Designed and implemented code architecture and visual GUI

Image Classification with the CIFAR-100 dataset

- Initiated a research project to develop a Custom Convolutional Neural Network (CNN) model for image classification on the CIFAR-100 dataset
- Conducted extensive research on previous scholarly works, iteratively designed and tested various layers and architectures within the custom CNN model, and employed data preprocessing and augmentation techniques to optimize model performance.
- Elevated Custom CNN accuracy from 18% to 46%, outperforming ResNet50 in precision and recall, validated by superior F1-scores

SKILLS & INTERESTS

Skills: Java | C++ | MySQL | Python | C | Linux Shell | CAD Design | Project Management | CSS | JavaScript | HTML | Flask | Django | SQLite | TensorFlow | Machine Learning