

Hratch Ghanime

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EDUCATION

University of California, Santa Barbara

Bachelor of Science, Data Science and Statistics **GPA 3.5**

Data Science Club

- Earned 2nd place out of 125 teams for outstanding innovation and technical performance at Datathon 2025.

Relevant Coursework: Object Oriented in Python/Java, Data Structures in Python/C++/Java, Probability & Statistics I/II/III, Data Science Principles with R & SQL, Data Science Concepts and Analysis, Stochastic Processes, Linear Regression Analysis, Design of Experiments, ML, Survival Analysis

PROJECTS/EXTRACURRICULARS

Equity Drivers - Independent Research

Python, SQL, Excel, API's, C++

Goleta, California

June 2025 - Present

- Built a financial dataset of quarterly reports and daily stock prices for 20 retail companies, merging SEC filings with Finance APIs.
- Engineered a **SQL pipeline** to clean unstructured tables, normalize identifiers, and calculate financial metrics, achieving 98% data accuracy.
- Tested investment hypotheses **using Python (pandas, NumPy, scikit-learn)** to correlate gross margin changes with subsequent 5-8% stock returns.
- Developed Python scripts using Pandas to automate financial data extraction from SEC filings and Finance APIs, reducing manual processing time by 60% and minimizing errors.

LastBite – Full-Stack Food Discount Platform

Founder & Lead Developer

Isla Vista, California

February 2025 - Present

- Engineered a full-stack application using **React, Express.js, PostgreSQL, and Node.js**, which facilitated the real-time discovery and purchase of discounted surplus meals from local restaurants, benefiting 200+ student users.
- Integrated **Stripe API** for secure payments and **Google Maps API** for real-time restaurant discovery and routing, contributing to a 17% reduction in food waste across participating restaurants weekly.

SwiftScreen | DataOrbit

Machine Learning, Python, Pytorch, API's

Goleta, California

January 2025 - Present

- Created an advanced resume screening system using **PyTorch** and **transformer-based models** (BERT/RobERTa) for generating meaningful resume embeddings. While implementing Zero-shot Learning to classify resumes into categories.
- Created and deployed a **Flask-based API**, enabling real-time resume querying and ranking through cosine similarity.

You Are What You Eat (Recommender System)

Machine Learning, Python, R, SQL

Goleta, California

January 2025 - Present

- Designed a **meal recommender system** that tailors daily meal plans based on user input, including BMI, dietary goals, and restrictions.
- Integrated **TheMealDB API** to dynamically fetch and filter recipes, supplementing a dataset of **438,138 recipes** for enhanced meal recommendations.

MarzipAni Small Business Website Development

HTML, JavaScript

Glendale, California

June 2024 - January 2025

- Designed a user-friendly interface with intuitive navigation, leading to a 15% increase in website traffic for MarzipAni.
- Implemented 5 custom WordPress plugins and customizations, enhancing website functionality and improving the overall user experience.

EXPERIENCE

Go Baby Go

Student Engineering Intern

Glendale, California

February 2024 - July 2024

- Redesigned four wheels, incorporating omnidirectional motion technology to improve maneuverability for children with mobility impairments; achieved 100% compliance with all relevant safety standards for children's rideable toys.
- Collaborated with engineers and therapists to collect and analyze user feedback data to improve design and safety features.

Hopin

Software Intern

Remote

June 2021 - June 2022

- Acquired hands-on experience in **Ruby** during a company bootcamp, focusing on scaling web applications.
- Developed and optimized code, contributing to the project's success through debugging and refinement.