

Yashmit V. Bhaveriseti

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EDUCATION

University of California, San Diego

La Jolla, CA

Bachelor's of Science in Data Science

Expected Graduation: May 2028

- GPA: 3.7/4.00
- Concentrations: Machine Learning, Data Analytics & Visualization
- Relevant Coursework: Data Science with Python, Data Structures & Algorithms, Linear Algebra, Calculus for Data Analysis

EXPERIENCE

UCSD CSES

La Jolla, CA

Open Source Developer

Sept 2025 – Present

- Built TritonSpend, a mobile-first personal finance application using React Native and TypeScript for budgeting, expense tracking, goals, and AI insights
- Developed Node.js backend with PSQL, designed REST APIs, schemas, and triggers for automated transactions
- Made interactive spending & goal visualizations using React Native SVG, collaborated via open-source code reviews

Croptimization

Online

Lead Researcher

May 2023 – Apr 2024

- Wrote an ML research paper applying AI-driven precision agriculture techniques, achieving **95% model accuracy**
- Analyzed **100K+** real-time weather and soil data points using TensorFlow, Pandas, NumPy, and Scikit-learn
- Built ML models for crop yield forecasting and soil-based recommendations to optimize resource allocation

Global Education Destinations

Egypt

HungerHeroes Research Lead

Oct 2022 – Dec 2022

- Co-authored an international research paper addressing food waste and hunger through data analysis and field research
- Developed a food redistribution website connecting donors with recipients to reduce local food waste

PROJECTS

Croptimization App | React Native, ML, APIs

May 2024 – Present

- Developed a cross-platform mobile app integrating ML models from mentioned Croptimization research with real-time weather and soil data
- Designed an interactive UI with seasonal crop calendars and yield predictions, published to the App Store

GestAR | Unity, C#, Arduino, Raspberry Pi

Nov 2018 – Jan 2019

- Built AR-inspired gesture and ASL recognition system enabling IoT control with **<100ms latency**
- Integrated hardware and software stack using Bluetooth, microcontrollers, and custom 3D-printed enclosures

LEADERSHIP & ACTIVITIES

Eagle Scout — BSA

Mountain House, CA

Completed years of leadership, service, and outdoor skills to achieve Eagle Scout rank

Aug 2021 – Present

Robotics Club

Mountain House, CA

President

Aug 2023 – May 2025

- Grew membership 246%, interviewed 163, managed \$10K in funds, mentored 5 teams
- Led 3 community workshops with 288 attendees, raising \$12,325 through sponsorships and event activities
- Won state championship and advanced to World championship

Hackathon Club

Mountain House, CA

President

Aug 2022 – May 2025

- Led STEM outreach workshops and educational trips, raising \$3K+
- Organized annual MountainHacks hackathon, with 250+ attendees and 16 sponsors

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, HTML/CSS, C#, NodeRed

Frameworks: React, React Native, Node.js, Express

Tools: Git, PostgreSQL, Android Studio, Jupyter, VS Code, Overleaf, Microelectronics