

# David Joves

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## EDUCATION

### University of California, Irvine

Bachelor of Science in Computer Science - GPA : 3.52 / 4.00

Irvine, CA

Expected Graduation: June 2026

### San Diego Miramar College

Associate's in Computer Science, Associate's in Mathematics — GPA : 3.77/4.00

San Diego, CA

August 2021 – May 2023

**Relevant Coursework:** Design and Analysis of Algorithms, Data Structure Implementation and Analysis, Machine Learning and Data Mining, Introduction to Data Management, Formal Languages and Automata, Human Computer Interaction, Project Management, Software Design Patterns and Implementation

## EXPERIENCE

### Data Structures Course Tutor

Donald Bren School of Information & Computer Science

Irvine, CA

September 2024 - December 2024

- Provided group tutoring twice a week to a course with **380+** students, designing personalized study plans and problem-solving strategies to improve comprehension of data structures.
- Led weekly office hours, providing structured guidance on problem sets and reinforcing lecture concepts, contributing to increased student test scores and problem-solving confidence

### ICS Summer Academy Program Assistant

Donald Bren School of Information & Computer Science

Irvine, CA

April 2024 - August 2024

- Conducted interactive coding and theory lessons for **60+** students in Cryptography and AI/ML, incorporating real-world case studies to enhance engagement and understanding.
- Mentored **12 capstone projects**, guiding students through AI/ML model evaluation and Cryptography in Go/Python, leading to high-quality final projects and formal recognition.
- Assisted in leading and developing group activities, resulting in a more engaging learning experience for students.

### Material Coordinator 1

Illumina Inc.

San Diego, CA

August 2021 - January 2022

- Managed logistics and inventory for **200+** lab and manufacturing units, ensuring seamless operations and supply chain efficiency.
- Independently managed **30+ units**, coordinating with managers to streamline restocking, reducing order delays and improving lab efficiency.
- Assisted in designing a SQL-based inventory management system (Postgres), enabling real-time order tracking and reducing estimated restock times by **10%**.

## PROJECTS

### Titanic Survival Predictor | Matplotlib, NumPy, Pandas

January - March 2025

- Participated in Kaggle Competition that analyzed big data related to passengers onboard the Titanic.
- Enforced feature engineering to sanitize and ready dataset to feed into multiple supervised machine learning models to predict what features represented the highest survival rate.
- Achieved a high accuracy of **78%** resulting in a bronze ranking of my analysis.

### MyChefJeff | React, Tailwind, Flask

June 2024

- Developed an **AI-powered chatbot** that generated personalized meal plans, incorporating dietary preferences and nutritional guidelines.
- Built and deployed **REST API** application using Gemini for recipe retrieval, enabling dynamic meal plan generation and real-time updates.
- Implemented a **Flask-based** backend server to manage AI processing and data flow, resulting in a **30%** reduction in response time for meal plan generation.

### ML Model Analysis | NumPy, Pandas, Tensorflow, Matplotlib

May 2024 – June 2024

- Authored a research paper analyzing the performance and accuracy of various machine learning models and classifiers on the CIFAR-10 dataset.
- Evaluated the accuracy and efficiency of those models, achieving a top model accuracy of **78%** utilizing hyperparameter optimization.
- Utilized **TensorFlow** to implement and train various **convolutional neural networks**, and **Matplotlib** for visualizing model performance metrics and learning curves.

## TECHNICAL SKILLS

**Languages:** C++, Java, Python, SQL (Postgres)

**Frameworks and Libraries:** Pandas, NumPy, TensorFlow, Scikit-learn, Matplotlib, React.js, Flask

**Developer Tools:** Git, GitHub, Docker, Visual Studio Code, IntelliJ, Figma