

Janna Audrey Doratan

jadoratan@gmail.com | (909) 551-6630 | linkedin.com/in/jadoratan | jadoratan.github.io

Education

University of California, Los Angeles (UCLA)

B.S. in Computer Science and Engineering

Expected Jun 2029

GPA: 4.0

Relevant Coursework: Data Structures & Algorithms, Software Construction, Computer Architecture, Circuits.

Experience

UCLA Digital & Technology Solutions

Information Technology Consultant

University of California, Los Angeles (UCLA)

Mar 2026 – Present

- Resolve issues across Windows and Mac OS, including email clients, Microsoft Office 365, VPN software, MFA, and cloud-based file hosting platforms (Box, Google Drive) to facilitate work for faculty, staff, and students.
- Document and track ~50 support tickets weekly, contributing to service desk documentation and knowledge base resources to improve resolution efficiency.
- Mentor newer consultants in troubleshooting and resolution strategies, effective communication, and workplace procedures to ensure seamless knowledge transfer and sustained customer satisfaction.

USC Machine Learning (ML) Theory Group

Machine Learning Researcher

University of Southern California (USC)

Jun 2024 – Aug 2024

- Implemented estimator formula for zeroth-order stochastic gradient descent algorithm using **PyTorch** library to reduce memory usage without compromising model accuracy.
- Preprocessed open-source binary classification image datasets used to train and assess model in **NumPy**.
- Improved initial model accuracy by **17%** by refining algorithm and fine-tuning hyperparameters.
- Designed and presented research poster to **350+** attendees within USC Viterbi Engineering community.

Projects

ClubFinder | HTML/CSS, React

Jan 2026 – Present

- Building a full-stack web app with **React** and **HTML/CSS** that aggregates club info, events, and peer reviews to streamline the club discovery process for incoming college students.
- Designed end-to-end UI/UX in **Figma**, iterating from lo-fi wireframes to hi-fi prototypes.
- Surveyed **20+** college students to identify pain points and inform product decisions.

Project Mousie | Python

Dec 2024 – May 2025

- Engineered a hands-free computer mouse tailored to an end user with a Parkinson's disease-related tremor in a cross-functional collaboration to make using electronic devices more accessible despite limited mobility.
- Programmed software using **OpenCV** to execute mouse clicks triggered by user blinking autonomously.
- Designed software UI used to guide the user through device operation and to enable hands-free computer navigation with **Python** ttkbootstrap library.
- Conducted market research on existing solutions and interviewed 4 tremor experts and patients to shape designs.

Delay Relay | Python, HTML/CSS, JavaScript

Jul 2022 – Aug 2022

- Visualized relationships between features of Kaggle flight delay dataset using **Plotly** and **matplotlib**.
- Trained SVM, XGBoost, and Random Forest models on dataset using **scikit-learn** to predict flight statuses.
- Created website in **HTML/CSS** and **JavaScript** to present project pipeline, Plotly visuals, and performance comparisons between SVM, XGBoost, and Random Forest.

Technical Skills

- Languages: Python, C++, Java, JavaScript, HTML/CSS, x86 Assembly, MATLAB.
- Tools: React, Node.js, Git/GitHub, Figma, VS Code, OpenCV, PyTorch, scikit-learn, NumPy, Plotly, OpenMP.

Activities

Upsilon Pi Epsilon

Induction & Membership Chair

University of California, Los Angeles (UCLA)

Mar 2026 – Present

- Developing an automation script that notifies committee members of internal deadlines during their reminder window, optimizing current and future committee workflows and preventing issues caused by human error.
- Host and organize logistics for induction events to facilitate 50+ CS students' onboarding every fall and spring.