

# SHLOK JADHAV

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## EDUCATION

### University of Wisconsin-Madison

September 2025 - May 2028

Double Major in B.S. Computer Science & B.S. Data Science

GPA: 3.942, Dean's List: Fall 2025, Spring 2026

- **Relevant Coursework:** Comp Methods for Bio Model & Sim, Programming I, II, & III (Java), Data Sci Modeling I & II (R), Data Sci Programming I & II (Python), Computer Engineering, Machine Organization & Programming, Discrete Mathematics

## PROFESSIONAL EXPERIENCE

### TidalX AI

May 2026 - Present

Software Engineer Intern

Milpitas, CA

- Engineering high-throughput Python/scikit-learn pipelines for same-fish classification utilizing trajectory and image-pair data
- Performing feature engineering (SIFT/ORB, OpenCV) using keypoint/geometry features for biometric identity matching
- Developing HITL tools for image-pair curation and iterative optimization of Random Forest re-identification accuracy

### Computational Biology & Machine Learning Lab

February 2026 - Present

Undergraduate Researcher

Madison, WI

- Building Python ML pipelines for birdsong analysis using spectrogram generation, audio preprocessing, and feature extraction
- Training encoder-decoder and LSTM-based models to learn compressed representations of bird vocalizations
- Applying PCA, UMAP, and topological data analysis to visualize learned embeddings and compare song structure

### UW-Madison Department of Information Technology

January 2026 - Present

Advanced Help Desk Support Specialist

Madison, WI

- Providing technical support for software, accounts, and campus technology issues to on- and off-campus users via phone calls

### Design Interactive

December 2025 - Present

Education Director

Madison, WI

- Leading weekly educational workshops for 50+ members on Figma, UI/UX design, and web development concepts
- Creating presentations to teach prototyping workflows, HTML/CSS, JavaScript, and frontend engineering fundamentals

### Coding for SDG

September 2022 - June 2025

Secretary

San Francisco, CA

- Led 3 hackathons with 200+ participants and \$15,000+ in prizes across Coding for SDG 2023 and Hack the Planet 24 & 25

## PROJECTS

### Nightwatch - Personalized Night Sky Guide Personal Project

May 2026

- Built FastAPI/Skyfield backend computing observer-specific solar, lunar, and planetary events from geocoded coordinates
- Designed sky quality scoring algorithm and viewing timeline from Open-Meteo, Nominatim geocoding, and timezonefinder
- Developed React/Vite frontend with Tailwind, Canvas API share-card export, scroll animations, and interactive visualizations

### Studi - UW-Madison Study Partner Platform Group Project

April 2026 - Present

- Built Expo/React Native app with TypeScript, Expo Router, Firebase Auth, Firestore for sign-in, profiles, and persistent user data
- Implemented rule-based matching between students using shared UW course selections and availability from a course catalog
- Developed workflows with campus location search, session creation/joining, messaging, ratings, and responsive themed UI
- Releasing the app for public usage on the App Store by August 2026

## AWARDS & HONORARY MENTIONS

### First Place Winner, NASA App Development Challenge

April 2024

- Developed a lunar visualization and pathfinding app for the Artemis Mission using the Ursina (Python) game engine
- Awarded the opportunity to present findings to NASA staff and faculty at the Johnson Space Center in Houston, TX
- Founded a student organization, NASA STEM, to guide high school students in competing for NASA STEM challenges

### Second Place, JAXA Kibo Robot Programming Challenge

June 2024

- Programmed Astrobees controls, NASA's free-flying robot on the International Space Station via a Java-based Android application

### Two-Time California State Finalist, Samsung Solve for Tomorrow

December 2023 & December 2024

- Designed wristbands to solve communication issues experienced by homeless youth and won a \$2,500 prize package in 2023
- Prototyped a device to diagnose diabetic retinopathy in underprivileged communities and won a \$2,500 prize package in 2024
- Competed as part of a student organization, XR EDU, serving as treasurer and managing club finances and internal operations

## SKILLS & INTERESTS

**Languages & Frameworks:** Python, Java, R, C, JavaScript/TypeScript, SQL, C++, C#, React, Next.js, Node.js, FastAPI, HTML/CSS

**AI/ML & CV:** OpenCV, Scikit-Learn, NumPy, Pandas, SIFT/ORB, RANSAC, Keypoint Mapping, Random Forests, Classification

**Developer Tools:** Git/GitHub, Linux/Unix, Bash, Jupyter, VS Code, GitLab, REST APIs, Vercel