Pranish Uprety

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Education

Caldwell University   *Caldwell, NJ*
BS COMPUTER SCIENCE · Financial Economics and Maths Minor   *Expected December 2027*

- Caldwell Honors Program, Presidential Scholarship, *CGPA **3.93/4.0***
- ***Facilitator*** *of 'NASA Space Apps Challenge 2024 (Global Hackathon)',* ***Instructor*** *of 'Front-End Web Development',* ***Honorable Delegate Diploma*** *at Caldwell MUN,* ***Contestant*** *at HackPrinceton 2025 and HackDartmouth X*
- Relevant Courses: *Front-End Web Development, Full-Stack Web Development, UI/-UX Human-Centered Design, Data Structures, Principles of Economics I & II*

Technical Skills

Programming Python (advanced proficiency) · JavaScript · C ·
Web/Media HTML/CSS · jQuery · Bootstrap · Flask · Express · Git · Photoshop
Databases SQL · PostgreSQL · NoSQL

Projects

Ask Mattrab: *Online Learning Platform* | Ruby on Rails, PostgreSQL, HTML, CSS, jQuery, AWS

- Engineered and deployed a full-stack social learning platform with 40+ responsive pages, attracting 10,000 users and 60,000 monthly visits within the first year.
- Designed and managed a relational database with 19 tables and 46,000+ rows, improving user engagement by 18% through optimized content organization and interactions.

Project Dristi: Smart Cane & Assistive App for Visually Impaired People | Raspberry Pi, React, Flask, Firebase, Google Maps SDK, Vosk
- Built an affordable smart cane from scratch with real-time obstacle detection, haptic feedback, and GPS tracking using Raspberry Pi and ultrasonic sensors.
- Developed a companion web app enabling voice-guided navigation, live location sharing, SOS alerts, and AI-powered assistance through Flask and React integration.

Work & Leaderships

Event Coordinator at Caldwell Astronomy Club   *Caldwell, NJ*
CALDWELL UNIVERSITY   *April, 2024 - Present*

- Coordinated events such as NASA Space Apps Challenge 2024, Music Under Stars, and Solar Eclipse 2024. Facilitated more than 300 students.

Tutor at Academic Success Center   *Caldwell, NJ*
CALDWELL UNIVERSITY   *Oct, 2024 -Present*

- Guided students in Front-End Web Development, covering HTML, CSS, JavaScript, and responsive design principles, while also assisting with Probability & Statistics, Elementary Spanish I, and Discrete Mathematics through structured problem-solving and concept reinforcement.
- Utilized interactive examples, visualization techniques, and targeted questioning to strengthen student understanding, leading to 85% tutees achieving A grades.

STEM Advance Summer Researcher   *Caldwell, NJ*
CALDWELL UNIVERSITY   *June 2025 - Present*

- Researching on "Flight Path Simulation and Terrain-Aware Navigation System for Mountainous Airspaces" under supervision of Prof. Veksler.