

# Pransh Dalal

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**Summary** — I am a student at Emerald High School in Dublin, California with a 4.27 GPA. I am driven by my passion to use my organizational skills and leadership qualities to contribute to my community through my love of computer science.

## Technical Skills

**Languages:** Python, JavaScript, TypeScript, SQL, HTML/CSS, R  
**Frameworks:** React Native, Flask, TensorFlow, Keras, Node.js  
**Tools:** Firebase, Git, Postman, PyTest, BeautifulSoup, RStudio, Expo, Docker

## Experience

### Etheral Apparel

Jun 2024 – Aug 2024

*Software Engineer Intern*

- Developed clothing customization website using React and enhanced the product page with a modern layout and animations
- Integrated a design lab featuring drag and drop and image/text uploads for clothing customization
- Implemented one-click export in order to simplify the exporting process to the designer
- Led user experience decision making for renovation of customization website
- Increased user engagement on website by 35%

## Projects

### Attune – Data-drive insights into Focus

Oct 2025

Github: [github.com/PranshDalal/Attune](https://github.com/PranshDalal/Attune)

- Developed mobile application using React Native and Flask to provide personalized insights for individuals with ADHD
- Implemented passive data collection of environmental factors including noise, light, motion, temperature and humidity
- Built LLM-powered nudges system that detects when current conditions drift outside the optimal range and provides short, actionable suggestions
- Constructed wearable utilizing Arduino and other electrical units to measure environmental factors and sync to the app utilizing Bluetooth.

### Somnus - Perplexity for Dreams

May 2025

Github: [github.com/PranshDalal/Somnus](https://github.com/PranshDalal/Somnus)

- Developed Somnus, a full-stack web application that analyzes user dreams to assess cognitive health, emotional patterns, and memory trends using AI
- Integrated Perplexity's Sonar model for advanced NLP-based dream interpretation, extracting key entities and scoring memory/anxiety metrics
- Designed and implemented dual user experiences: one for individuals tracking their dreams and one for caregivers monitoring patient mental health
- Enabled users to export personalized dream reports as sleek PDF summaries using FPDF
- Built frontend with React, Material-UI, and Recharts for responsive UI and visual trend analysis
- Developed backend using Flask, Flask-SQLAlchemy, PyJWT, and SQLite to ensure secure, lightweight functionality
- Implemented JWT authentication and caregiver permission workflows to ensure data privacy and secure access control

### MoodReads – Emotion-Based Book Recommender

Jan 2025

- Built a full-stack mobile application using React Native and Flask that recommends books based on users' detected emotions or mood input
- Integrated emotion recognition and deep learning using DistilBERT for text-based sentiment analysis
- Created a recommendation algorithm that incorporates content based filtering, collaborative filtering, time of day/season boosting, and more
- Curated a custom dataset of 5,000+ books from GoodReads to power personalized recommendations utilizing Web Scraping libraries in Python
- Implemented Firebase Authentication and Realtime Database for secure user login and data storage
- Achieved adoption by 250+ users on App Store

## Education

### Emerald High School

*Relevant Classes:* Computer Science Essentials, AP Computer Science Principles, AP Computer Science Applications

*Relevant Activities:* Hackathon Organizer, Programming Club Board Member