

Vikram Thevar

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EDUCATION

Arizona State University

Tempe, AZ

B.S. in Computer Science; Cumulative GPA: 4.0/4.0; Dean's List: 2024–2025

Aug. 2024 – Expected May 2028

EXPERIENCE

Lead Volunteer

August 2023 – May 2024

SEWA International

Peoria, AZ

- Supervised a team of 25 volunteers weekly, coordinating efforts at food banks including St. Mary's and FMSC
- Delivered over 10 hours of service weekly in fast-paced, team-based environments
- Ensured smooth operations through efficient communication and task delegation

PROJECTS

F1 Qualifying Lap Time Predictor | Python, scikit-learn, Pandas, Matplotlib September 2025 – October 2025

- Built machine learning model using **Random Forest Regressor** to predict Formula 1 qualifying lap times based on team, driver, and telemetry variables
- Engineered interaction features and tuned hyperparameters with **GridSearchCV**, achieving **$R^2 = 0.94$** and low MSE on test data
- Visualized performance and feature importance using Matplotlib and Seaborn to interpret model accuracy and driver-team impact

Heimdall AI Voice Assistant | Python, Whisper.cpp, YOLOv8, Ollama, AWS

July 2025 – August 2025

- Built AI-powered assistant enabling visually impaired users to navigate computer screens using natural voice commands
- Implemented local **speech-to-text** (Whisper.cpp), **OCR** (Tesseract), and **UI detection** (YOLOv8) for real-time contextual understanding
- Integrated local **Ollama** model for intent parsing; added offline TTS for natural voice responses and PyAutoGUI for screen automation
- Leveraged **AWS S3** and **DynamoDB** for screenshot storage, user preferences, and accessibility logs under AWS Free Tier

Vintage Storefront Website | React.js, Supabase, Stripe, Vercel

June 2025 – present

- Developed full-stack e-commerce website with vintage clothing catalog, admin dashboard, **user authentication**, and shopping cart
- Utilized **React.js** frontend and **Supabase** backend for authentication with **JWT tokens**, database, and dynamic inventory management
- Integrated Stripe payment gateway for secure transactions; deployed on Vercel with **CI/CD pipelines**
- Generated over **\$1,000 in sales** and attracted **500+ unique monthly visitors**

ReThread Chrome Extension | JavaScript, Chrome APIs, Gemini Vision

March 2025

- Won **2nd place overall** at DevLabs hackathon (200+ contestants) by building Chrome extension leveraging **Google Gemini Vision** for reverse image search to redirect users from fast fashion to secondhand marketplaces
- Developed robust matching pipeline integrating visual and textual cues, achieving **85% accuracy** in product identification

VisionAssist Smart Glasses | Python, Raspberry Pi

August 2024 – December 2024

- Developed wearable assistive device using **Raspberry Pi** to process ultrasonic sensor data, delivering real-time haptic feedback
- Optimized sensor filtering algorithms, improving obstacle detection accuracy to **95%** with **sub-200ms response time**

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Rust

Frameworks: React, Node.js, Tailwind CSS, Flask, FastAPI

Developer Tools: Git, Docker, Vercel, AWS (S3, DynamoDB, Lambda), MongoDB

Libraries: Pandas, NumPy, scikit-learn, Matplotlib, Seaborn