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

VisionAssist Smart Glasses | *Python, Raspberry Pi* August 2024 - December 2024

- Developed wearable assistive device using Raspberry Pi and Python to process ultrasonic sensor and photoresistor data, delivering real-time haptic feedback via vibrating motors to assist visually impaired users
- Optimized sensor filtering and motor control algorithms, improving obstacle detection accuracy to 95% during field tests
- Provided haptic feedback with sub-200ms response time for real-time navigation, enhancing user awareness and safety

ReThread Chrome Extension | *JavaScript, Chrome APIs, Gemini Vision* March 2025

- Won 2nd place overall at DevLabs hackathon with 200+ contestants by building Chrome extension leveraging Google Gemini Vision for reverse image search with keyword-based matching to redirect users from fast fashion to secondhand marketplaces
- Developed robust matching pipeline integrating visual and textual cues, achieving 85% accuracy in identifying equivalent products across multiple platforms
- Ensured seamless user experience with fast, low-latency redirects executed entirely client-side using JavaScript and Chrome Extension APIs

Heimdall AI Voice Assistant | *Python, Whisper.cpp, YOLOv8, Google Gemini, AWS* July 2025 - August 2025

- Built AI-powered assistant that enables visually impaired and non-technical users to navigate computer screens using natural voice or text commands
- Implemented local speech-to-text (Whisper.cpp), OCR (Tesseract), and UI element detection (YOLOv8) for real-time contextual understanding from periodic or on-demand screenshots
- Integrated Gemini API for intent parsing, conversation handling, and contextual reasoning based on live screen data
- Added offline TTS (Coqui) for natural, low-latency voice responses and PyAutoGUI with OS accessibility APIs for automated screen interactions
- Leveraged AWS S3 for screenshot storage and DynamoDB for storing user preferences, history, and accessibility usage 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, product search, and shopping cart functionality
- Utilized React.js frontend and Supabase backend services for authentication with JWT tokens, database, and storage with dynamic inventory management
- Integrated Stripe payment gateway for secure transactions with PCI compliance and customer data security
- Deployed on Vercel with CI/CD pipelines, reducing deployment time by 50% and optimizing mobile responsiveness for 25% increased engagement
- Generated over $1,000 in sales and attracted 5,000+ unique monthly visitors, demonstrating strong user engagement

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, VS Code
Libraries: Pandas, NumPy, scikit-learn