Nikhil Tiwari

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EDUCATION

University of Wisconsin, Madison — Madison, WI
Bachelor of Science in Computer Science — *May 2027*
- Relevant Coursework: Object Oriented Programming (Java), Linear Algebra, Intro to Computer Engineering

EXPERIENCE

Software Engineer Intern — May 2024 – Aug. 2024
Taro (YC S22) — *San Francisco, CA*
- * Revamped the UI/UX of the company's web application using **React**, redesigning key features based on user feedback, improving ease of use and reducing user drop-off by **10%** through a more intuitive interface.
- * Collaborated closely with the backend team to design and implement critical features in internal tools, streamlining workflows and reducing task completion times by **15%**, directly enhancing team productivity.
- * Optimized **SEO** strategies and revamped content management processes, contributing to a **10% increase in organic traffic** within 2 months by ensuring that site content was more discoverable and user-friendly.

Software Engineer Intern — Jan. 2022 – May. 2024
BSNA — *Rochester Hills, MI*
- * Led the full redevelopment of a community website, increasing site traffic by **25%** and improving the registration process, which supported 1,000+ active members while ensuring a seamless user experience.
- * Engineered and oversaw a large-scale three-day event with over **1,000 attendees**, ensuring the reliability of **live streaming**, **AV setups**, and **network infrastructure** with minimal downtime and high user satisfaction.
- * Integrated a set of **financial management** and **membership engagement tools** into the platform, simplifying member tracking and allowing for more efficient internal processes and communication.

PROJECTS

GeoGuessr AI | *Python, PyTorch, TensorFlow, Tesseract, Git* | GitHub — Feb. 2025 - Present
- * **Created** a backend system for a GeoGuessr-style AI that analyzes street-level imagery to predict countries with **40% accuracy**, leveraging deep learning and OCR for feature extraction.
- * **Trained** deep learning models locally using **PyTorch** and **TensorFlow**, increasing accuracy from **21% to 40%** within **24 hours** through model tuning and dataset augmentation.
- * **Optimized** image processing pipeline, reducing inference time by **70%** (from 10s to 3s) through efficient preprocessing and parallelization techniques.
- * **Processed 50,000+ images**, leveraging OCR with **Tesseract** to extract and analyze text.

What Happened Today | *TypeScript, React, Git* | GitHub — Dec. 2024 – Present
- * **Developed and deployed** a **Raycast** extension that leverages the **Wikipedia API** to fetch and display historical events, providing users with daily insights at a glance, making it easier to explore significant moments.
- * **Achieved over 120+ downloads**, demonstrating strong user interest and engagement, and highlighting the demand for an accessible tool to explore historical events quickly and easily.
- * **Designed and implemented** an intuitive and user-friendly UI with features like quick-access search and streamlined content presentation, ensuring that users can effortlessly discover relevant historical facts.

DresserToGo | *Python, TypeScript, Flask, React, Node.js, Firebase, Git* | GitHub — Nov. 2024 – Present
- * **Developed** a mobile application that enables users to upload images of their clothing, utilizing **AI** to categorize items into four clothing types and generate personalized outfit suggestions.
- * **Created** and trained a **machine learning model** with high accuracy for clothing classification, integrating seamless UI components for a real-time interactive experience.
- * **Engineered** a scalable backend infrastructure utilizing **Node.js**, **Python**, and **Firebase**; integrated **Google Drive APIs** to store images, reducing data waste and enhancing upload speeds by 30 seconds per transaction.

TECHNICAL SKILLS

Languages & Frameworks: Python, Java, TypeScript, C++, Kotlin, React, Node.js, Flask
Cloud & Databases: Firebase, Google Cloud Platform, AWS S3, PostgreSQL, MongoDB, Redis
DevOps & Tools: Git, GitHub, GitLab, Docker, Vercel, Netlify, NeoVim
Machine Learning & AI: PyTorch, TensorFlow, Tesseract, CLIP, OpenCV, Hugging Face