

Nikhil Tiwari

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EDUCATION

University of Wisconsin-Madison, B.S. Computer Science May 2027
• **Relevant Coursework:** Data Structures and Algorithms I, II, & III, Linear Algebra, Intro to Computer Engineering, Discrete Mathematics, Calculus I & II

EXPERIENCE

Software Engineer Intern May 2024 – Aug. 2024
Taro (YC S22) San Francisco, CA

- Spearheaded the UI/UX overhaul of the primary web application utilizing **React** and modern CSS techniques; implemented user-centric redesigns of key features based on feedback analysis, enhancing usability and achieving a **10% reduction in user drop-off and churn**.
- Collaborated with backend engineering via **REST APIs** to design, develop, and integrate critical features into internal administrative tools, resulting in a **15% decrease in average task completion time**.
- Executed data-driven **SEO** strategies, including keyword research and on-page optimization, and revamped content management system (CMS) processes; drove a measurable **10% increase in organic search traffic** within 2 months by improving content discoverability and indexing.

Software Engineer Intern Jan. 2022 – May. 2024
BSNA Rochester Hills, MI

- Delivered a technical presentation on the practical applications of **Artificial Intelligence** to an audience of **100+ event attendees**, fostering community engagement with emerging technologies.
- Led the end-to-end redevelopment of the community web platform using **MERN**, enhancing architecture and user experience; increased site traffic by **25%** and streamlined the registration process for over **1,000 active members**.
- Engineered and managed the technical infrastructure for a large-scale, 3-day event supporting **1,000+ attendees**; ensured high-availability **live streaming solutions**, robust **AV systems**, and stable **network infrastructure**, achieving near-zero downtime.
- Integrated third-party **financial management APIs** and custom **membership engagement tools** into the core platform; automated key administrative tasks, simplifying member tracking and enhancing operational efficiency.

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 **150+ downloads**, with 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.
- 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.
- Created and trained a **machine learning model** with high accuracy for clothing classification, integrating seamless UI components for a real-time interactive experience.

TECHNICAL SKILLS

Languages & Frameworks: Python, Java, TypeScript, JavaScript C++, Kotlin, HTML, SQL, React, Node.js, Flask

Cloud & Databases: Firebase, Google Cloud Platform, AWS S3, PostgreSQL, MongoDB

DevOps & Tools: Git, GitHub, GitLab, Docker, Vercel, Vim, NeoVim

Machine Learning & AI: PyTorch, TensorFlow, Tesseract, CLIP, OpenCV, Hugging Face