






Tanishq Bansod

 www.linkedin.com/in/tanishq-bansod  tanishq.bansod27@gmail.com  github.com/TanishqBansod  412-919-7673
 <https://tanishqport.netlify.app/>

EDUCATION

University of Pittsburgh, Bachelors in Computer Science

Expected 2026 | Pittsburgh, PA

GPA: **3.97** | Dean's List: **2024**

Coursework: Data Structures and Algorithms 1&2, Assembly Language, Discrete Math

Organizations: Computer Science Club at Pitt, Pitt Mastana Dance Team

PROFESSIONAL EXPERIENCE

University of Pittsburgh, Discrete Mathematics Undergraduate Teaching Assistant

01/2025 – present | Pittsburgh, PA

- Designed and presented **weekly** recitation slideshows to reinforce lecture material for 20 students, focusing on logic and other discrete mathematics concepts
- Held **10** weekly office hours to assist students and improve performance
- Prepared **course materials** and managed student queries
- Monitored student progress and provided feedback to ensure **topic mastery**

University of Pittsburgh, Undergraduate Research Assistant

11/2024 – present | Pittsburgh, PA

- Compiled and annotated a dataset of concept-labeled computer science lecture presentations using the **BIO span-labeling** framework
- Leveraged Large Language Models (LLMs) for **automated** annotations, reducing manual workload and improving **scalability**
- Co-authored a research abstract and contributed to the **development** of a machine-learning system for concept extraction
- Collaborated with a team of **9 researchers** in **biweekly** meetings to plan experiments, annotate data, and strategize funding opportunities

Baans USA, Software Development and Marketing Lead

06/2024 – present | Pittsburgh, PA

- Led the development of *Nirvanaa Brows* website using **Figma** and **WordPress**, resulting in a platform generating **1,106** views over Summer 2024
- Directed** client marketing initiatives at Baans USA by **crafting** daily social media posts and videos, increasing audience engagement
- Spearheaded** comprehensive requirement documents by conducting detailed stakeholder interviews and analysis, resulting in a **reduction in project scope changes** and enhanced clarity for the development team
- Played a key role in enhancing the online presence and **increasing revenue** for both companies by leading targeted development projects and implementing strategic initiatives, resulting in a **40% increase** in online traffic within the **first six months**

PROJECTS

Music By Mood, Tartan Hacks 2025

02/2025

- Built** a web app leveraging computer vision with **DeepFace** to detect user emotions and play corresponding music, processing images in under **500ms**.
- Integrated a real-time facial emotion recognition system using **OpenCV**, analyzing **over 7 facial expressions** to personalize music selection.
- Constructed a scalable backend with **Flask** and **FastAPI**, efficiently handling **100+ requests per second** for seamless user interactions.
- Refined model performance by fine-tuning DeepFace parameters, reducing API response time by **40%** for faster music recommendations.

SkillMatch, SheInnovates 2025

01/2025

- Won **3rd place** for developing a resume anonymization tool using **Flask, React, and TailwindCSS**, reducing hiring bias for **100%** of processed resumes.
- Integrated **Google Gemini API** to remove **5+** demographic identifiers from resumes, ensuring **unbiased** candidate evaluations.
- Utilized an **online database** to analyze **500+** industry salary data points, generating **accurate** salary estimates for candidates.
- Collaborated in a **4-person team**, completing the project in **24 hours**, and presented to a panel of **8 judges**, enhancing skills in **AI integration**, frontend development, and **database management**.

Freudify, Google Chrome Built-in AI Challenge

11/2024 – 12/2024

- Developed a full-stack **MERN** (MongoDB, Express.js, React, Node.js) web app that leverages **AI-driven APIs** (Gemini Nano) to analyze and interpret **500+** user-submitted dreams
- Engineered secure authentication using **JWT** and **MongoDB**, enabling user registration, login, and access to protected routes, improving user security by **90%**
- Designed a responsive UI with React and Tailwind CSS, providing an engaging user experience for approximately **200** active users through dynamic routing and smooth navigation
- Collaborated with a partner to develop **RESTful APIs** that manage dream data submissions and AI-generated responses, ensuring scalability and optimizing API response times by **30%**

Anime AI Image Classifier

06/2023 – 08/2023

- Developed a **Python-based** anime image classifier, scraping over **500** character images from *MyAnimeList* and augmenting the dataset by generating **10x more images** using **TensorFlow's ImageDataGenerator**, enhancing model robustness
- Engineered a classification model based on **MobileNetV2**, achieving **85%** validation accuracy through hyperparameter tuning
- Implemented the processing and splitting of over **1000 images** into training and testing sets, using an **80-20 train-test ratio** to optimize model performance
- Deployed the model for **real-time predictions** with a user-friendly script, delivering character classifications with over **80% accuracy** in under **1 second** per image

SKILLS

Technical Skills

Languages: Java, JavaScript, Python, C++, HTML

Frameworks & Libraries: React, Tailwind CSS, MongoDB, Express.js, Node.js, Git, WordPress, Webflow, GoDaddy, Tensorflow, Keras, MobileNetV2,

BeautifulSoup, Requests, Pandas, NumPy, Matplotlib