

Tanishq Bansod

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EDUCATION

UNIVERSITY OF PITTSBURGH

PITTSBURGH, PA

Bachelor of Science in Computer Science (GPA: 3.7/4.0)

Expected Graduation: Apr 2027

- *Courses:* Data Structures & Algorithms, Introduction to Computer Vision, Discrete Structures, Assembly Language & Computer Organization, Systems Software, Formal Methods.
- *Organizations:* Steel City Shershaah, PittCSC, Bridge To Wellness, Step@Pitt, SASA.

WORK EXPERIENCE

Software Engineer

Pittsburgh, PA

Freelance

June 2024 - Present

- Boosted website traffic for [Nirvanaa Brows](#) by 27% in 3 months by designing the site using Figma and React.
- Developed a wedding website used by 300+ guests for RSVPs by developing a React frontend with Firebase authentication.
- Streamlined redesign cycles by 30% by creating demo sites for client approval before development.

Undergraduate Research Assistant

Pittsburgh, PA

University of Pittsburgh

Nov 2024 - Present

- Created a labeled dataset from 100+ concept-tagged CS lecture slides by applying the BIO span-labeling framework.
- Minimized manual annotation workload by 80% by integrating LLM-based label generation into the workflow.
- Advanced research progress with a 9-person team by coordinating weekly tasks and experiments.

Undergraduate Teaching Assistant

Pittsburgh, PA

University of Pittsburgh

Jan 2024 - Present

- Supported full-class instruction for 50+ students by preparing materials and responding to student queries.
- Reinforced course concepts for 20+ students by presenting weekly recitation slideshows.
- Enhanced student performance through 20 weekly office hours by providing individual guidance.

PROJECTS

Sem:colon | Python, Flask, React, TensorFlow, FastAPI

Steel Hacks 2025

- Classified lung cancer tumors from 10,000+ image samples by creating a multimodal computer vision (CV) and machine learning (ML) model designed to improve tumor prediction accuracy.
- Elevated prediction accuracy to 82% on test data by training and tuning a TensorFlow classifier.
- Optimized backend throughput by 20% by optimizing FastAPI routing and reducing redundant model-loading operations.

Music By Mood | OpenCV, Python, Flask, DeepFace

TartanHacks 2025

- Delivered music recommendations at 100+ req/s by developing a DeepFace + OpenCV model for emotion detection.
- Decreased end-to-end response time to sub-500ms by optimizing request handlers and Computer Vision inference logic.

SkillMatch | GeminiAPI, Flask, React, FastAPI

3rd Place @ SheInnovates 2025

- Reduced hiring bias across 5+ demographic identifiers by developing a resume-anonymization tool.
- Enhanced salary fairness using 3+ evaluation factors by implementing a Gemini-powered recommendation pipeline.

Freudify | MongoDB, Express.js, React, Node.js, Python, Gemini Nano API

Google Chrome Built-in AI Challenge 2024

- Generated natural language processing (NLP)-based dream insights using Gemini API in a MERN-stack interpretation app.
- Strengthened user security by 90% by implementing JWT authentication with encrypted MongoDB storage.

Anime Character Classifier | Python, TensorFlow, MobileNetV2, BeautifulSoup

- Engineered an anime character image classifier using a dataset of 500+ images by developing a TensorFlow training pipeline.
- Constructed training data through web-scraping workflows by extracting images from MyAnimeList using BeautifulSoup.
- Amplified model accuracy to 82% validation accuracy by fine-tuning a MobileNetV2 architecture.

SKILLS

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

Tools: Git, Docker, JIRA, VS Code, Postman, Netlify, Firebase, Kubernetes, SQLite

Frameworks & Libraries: React, Next.js, React Native, JUnit, Tailwind CSS, Flask, MongoDB, Express.js, Node.js, TensorFlow, Keras, MobileNetV2, Scikit-learn, OpenCV, DeepFace, NumPy, Pandas, Matplotlib, PyTorch, BeautifulSoup, Requests, FastAPI