Kartikey Pandey

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Education

Pennsylvania State University — University Park, PA
Bachelor of Science, Computer Science, Minor in Entrepreneurship — *August 2022 – May 2026*
Cumulative GPA: 3.75/4.00

Experience

Snap Inc. Spectacles Student Accelerator Program — January 2025 – Present
AR Developer - Reality Rush Project — *Remote*

- Developing Reality Rush, an AR fitness application using **Lens Studio** and **TypeScript** that transforms spaces into interactive workout environments
- Pioneering real-time form correction and rep counting algorithms for Spectacles AR, improving workout accuracy and user engagement
- Collaborating in a team of 3 to create immersive AR fitness experiences, winning the Snap AR Challenge at HackPSU Fall 2024

Google Developer Student Club — August 2023 – Present
President — *University Park*

- Spearheaded 3 student team projects using **TensorFlow** and **OpenAI APIs**, including a chatbot application and image classification system
- Orchestrated weekly **React** and **Node.js** workshops for 50+ students, resulting in the deployment of 10+ personal portfolio websites
- Taught **Git** collaboration workflows and code review processes, which resulted in a project completion rate of **80%**

Intel — June 2020 – April 2021
AI Software Engineer Intern - OpenVINO Team — *Remote*

- Architected ML training pipeline reducing model deployment time by 33% (3 days to 2 days)
- Implemented **Computer Vision** system for chip defect detection using **OpenCV**, achieving **97%** accuracy on 100,000+ test images
- Designed **BERT**-based document classifier for technical specifications, processing 1000+ documents daily with **90%** accuracy

Projects

Reality Rush – HackPSU Snap AR Hackathon 1st Place | *TypeScript, Lens Studio, Spectacles SDK* — October 2024

- Engineered "FitForm" AR fitness trainer using **Snap Spectacles**, winning $5,000 prize among 200+ participants at Snap's AR Hackathon
- Implemented real-time pose tracking using **Lens Studio's ML Kit**, detecting 5 key exercises with **90%** accuracy and providing form feedback in under 100ms
- Developed gesture-based UI using **Spectacles' Hand Tracking API**, enabling menu navigation and workout selection through pinch gestures
- Project: https://devpost.com/software/reality-rush

EyeSnap – HackHarvard 2nd Place | *Python, TensorFlow, React Native* — October 2023

- Created smartphone-based Diabetic Retinopathy detection system using **TensorFlow** and **OpenCV**, reducing diagnostic equipment costs from **$50,000** to **$100** per setup
- Trained CNN model on 10,000+ retinal images using **PyTorch**, achieving **92%** accuracy on validation set of 2,000 images from NIH database
- Launched **React Native** app with offline processing capabilities, handling 100+ images/day and reducing diagnosis time from 2 days to 10 minutes
- Project: https://devpost.com/software/eyesnap-diabetic-retinopathy-detection-with-diascan

Technical Skills

Languages: Java, Python, SQL, JavaScript, TypeScript, HTML/CSS, C/C++, C#, Go, PHP
Frameworks: React, Vue.js, Next.js, Node.js, FastAPI, Flask, Spring, TensorFlow, Angular
Developer Tools: Git, AWS, Google Cloud Platform, Docker, Kubernetes, PostgreSQL, NoSQL, Kafka, JIRA, PyTest, Selenium, Linux
Design Tools: CAD, Solidworks, Arduino, Fusion360, Blender