PREET PATEL

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EDUCATION

New York University   **September 2023 - May 2025**
Master's, Computer Science   *GPA: 3.5*
- Relevant Coursework: Data Structures & Algorithms, Operating Systems, AI, Computer Vision, Big Data, AR/VR

SRM Institute of Science and Technology   **July 2019 - May 2023**
Bachelor's, Electronics and Communication Engineering   *GPA: 8.2*
- Relevant Coursework: Robotics, Machine Learning (Python/MATLAB), Linear Programming

PROFESSIONAL EXPERIENCE

Ocean Shark LLC   **Old Bridge, NJ, USA**
Software Development Engineer (SDE) Intern   *June 2024 - Present*
- Built scalable, fault-tolerant microservices in distributed computing using Node.js and AWS; reduced latency by 30%.
- Built index/query systems and integrated low-cost storage solution for analytics.
- Implemented TDD pipelines with Docker and GitHub Actions to automate CI/CD.
- Added automated integration test to validate microservice interactions across environments.
- Optimized multi-tier backend with log diagnostics and deployment analysis.
- Delivered customer-obsessed features in Agile sprints aligned with cloud-scale architecture.

Bosch Chassis Systems India Pvt. Ltd   **Pune, MH, India**
Machine Learning Intern   *June 2022 - August 2022*
- Analyzed 100,000+ energy data points; built predictive models to reduce factory power usage.
- Automated audit workflows with bot, reducing manual labor by 40%.
- Improved machine efficiency 25% via threshold-optimizing ML model.

Adaptable Services   **Surat, GJ, India**
Software Development Intern   *January 2022 - April 2022*
- Built cross-platform mobile survey app using Flutter; increased user engagement by 35%.
- Integrated REST APIs for real-time data ingestion; reduced processing time by 50%.

PROJECTS & OUTSIDE EXPERIENCE

Food Calorie Measurement Using DNN   *August 2021 - May 2022*
- Used: Python, Flask, PyTorch, Keras, Flutter, AWS
- Built deep learning model (hybrid DNN) for food recognition (10K+ samples) with 92% test accuracy.
- Deployed on EC2 with CI/CD and Flutter front-end integration.
- Enabled real-time calorie prediction using Flask API and AWS hosting.

PaperCupPro – Inventory & Staff Management   *August 2022 - October 2022*
- Used: HTML, CSS, PHP, MySQL, JS
- Built web platform with real-time inventory + task dashboard.
- Reduced manual work by 30% and improved workforce scheduling by 20%.
- Added secure admin view and index/query logic for production planning.

AI-based Vehicle Management System   *August 2022 - May 2023*
- Used: OpenCV, dlib, Python, C++
- Developed real-time AI system for driver alertness using facial tracking.
- Built automatic intervention based on cognitive models; 95% accuracy.
- Enabled real-time video stream ingestion with future FPGA scalability.

SKILLS

Languages: Java, Python, C++, C#, SQL
Backend & Systems: Object-Oriented Design, REST APIs, Microservices, Docker, GitHub Actions, TDD, CI/CD, Multi-tiered Architecture
Distributed Systems: Distributed Computing, Fault-Tolerant Systems, Index/Query Systems,, Storage Systems, Cloud Infrastructure (AWS, EC2, Lambda)
ML & Data: TensorFlow, PyTorch, Keras, Pandas, NumPy, Prediction Systems, Linear/Nonlinear Optimization, Applied Mathematics
Soft Skills: Agile Development, Problem Solving, Abstract Thinking, Ambiguity Handling, Cross-Team Collabora- tion, Customer Obsession