

# Pranay Pandey

Final Year undergraduate 📞 9313476404

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## Education

### IIT Dhanbad

Integrated Master of Technology (GPA: 8.93)

May 2025

Silvassa, Dadara and Nagar Haveli

- **Relevant Coursework:** Data Structures and Algorithms (C++), Cryptography, Linear Algebra Data Mining (Python)

## Experience

### Uber

Software Engineering Intern

Technical Skills - **React**, jest testing, **GraphQL**, **Go**, dependency injection, database, bazel, project management

May 2024 – July 2024

Hyderabad, India

- Enhanced contract constraint management for uber eats merchant, by enabling easier update through UI. Designed and implemented an intuitive UI that streamlined the process of updating contract constraints
- Developed and integrated a comprehensive logging solution, forwarding logs to a centralized log server.
- Wrote extensive unit tests using Jest and go-testing, achieving 100% code coverage.

### Lettfaktura

Full Stack Freelancer Engineer

Technical Skills - **React**, Cross browser compatibility, **RestAPI**, **Javascript**, Postgresql,

Dec 2023 – Present

Norway

- Implemented microservices architecture using Node.js and Fastify, improving API response time by 25% and reducing server load by 30%.
- Enabled hybrid Web application with browser compatibility upto Chrome 42 (2015) without babel and transpiler according to client demands
- Optimized Postgresql database queries, reducing page load times by 15% and enhancing overall application performance.

## Projects

### Photo Organizer Web App | Django, HTML, Python, DBSCAN clustering, Computer vision, RESTAPI



- Utilized facial recognition library to represent each detected face as a 128-dimensional vector.
- Implemented and fine-tuned the DBScan algorithm for effective clustering of facial vectors.
- Developed features for custom views, album downloads, and integration with Instagram for image import.

### Self Driving car algorithms | Computer Vision, Object Detection, OpenCV, Neural Networks, Control Systems



- Developed algorithms for autonomous driving of car on a specified track using camera sensors above the car.
- Incorporated YOLOv5 for object detection to identify obstacles (trash can, trees, road cones, moving people) and road signs (uphill, left/right turn, stop).
- Implemented Multi-threading and optimization for better results, and tested system in Gazebo and ROS2 simulations.

## Technical Skills

**Languages:** C++, Go, Javascript, Python, Java, Dart, C#, Solidity

**Technologies:** HTML, CSS React.js, Nextjs, Django, FastAPI, Go-server, GraphQL, JSON, RESTful APIs, Docker, GraphQL, Typescript, Git, TensorFlow, PyTorch, ASP.NET, Node.js, Full-stack development

**Concepts:** Compiler, Operating System, Virtual Memory, Dependency injection, Cache Memory, Encryption-Decryption, Machine Learning, API, Database management, Coding standards, Unit testing,

## Publications

Analyzing Cricket Biomechanical Parameters using Keypoint Detection

## Achievements

- First Position in Prometeo'22 – Arduino Programming Competetion – IIT Jodhpur
- First Runner Up Position in Tally Code Brewers'22 System Programming Competition
- First Runner Up Position in Self Driving Car Competition'22 – NXP AIM 2.0
- 1st runner up finalist in E-yantra Robotics Competetion'24 – IIT Bombay
- Second Runner Up Position in Tezos Tez Asia Web3 Competition'23