

# Dhruv Parashar

848-247-9907 | [dhruvparashar246@gmail.com](mailto:dhruvparashar246@gmail.com) | [linkedin.com/in/dhruvparashar-/](https://linkedin.com/in/dhruvparashar-/) | [github.com/DhruvParashar246](https://github.com/DhruvParashar246)

## EDUCATION

### Rutgers University–New Brunswick

May 2027

*Bachelor of Science in Computer Science, Minor in Mathematics*

GPA: 3.8/4.0

**Scholarships & Awards:** National Merit Scholar, Dean's List: Fall 2024, Spring 2025

**Relevant Coursework:** Data Structures & Algorithms, Machine Learning, Computer Architecture, Object-Oriented, Programming, Statistics, Discrete Mathematics

## SKILLS

**Coding Languages:** Python, TypeScript, JavaScript, HTML/CSS, Kotlin, Java, SQL, PostgreSQL, C#, C, C++, R

**Frameworks:** Next.js, React, Node.js, Express.js, Flask, OpenCV, Tailwind

**Tools:** AWS, Azure, MongoDB, Postgres, Dynamo DB, Cadence, Chronosphere, Jira, Jupyter, Git, Unix

**Key Certifications:** JPMorgan Chase Software Engineering, Deloitte FinTech Engineering, Google Intro to GenAI, IBM AI Engineering, Microsoft AI & ML Engineering, UPenn AI & ML Essentials

**Languages:** English (Fluent), Hindi (Fluent), Marathi (Fluent), French (Limited)

**Concepts:** Software Engineering, Frontend, Backend, Machine Learning, Computer Vision, Agile Methodologies

## EXPERIENCE

### WayFair

May 2025 – Present

*Software Engineer Intern*

*Boston, MA*

- Built **5+** **AI workflows** in **n8n** using **Python**, **APIs**, and web scraping to automate design & trend insights for Wayfair
- Developed **3 AI agents** for trend discovery, competitor monitoring, content generation across **50+ e-commerce brands**
- Collaborated in an **agile, microservice** environment with code reviews & workflow documentation to ensure reliability

### DP Data Solutions

Jan 2025 – May 2025

*Software Engineer Intern*

*North Brunswick, NJ*

- Developed and optimized **backend** features in a microservice, improving **API** execution by **20%** stabilizing data workflows
- Built **Python** and **TypeScript** based automation scripts & integrations eliminating **15+ hours** of manual work per sprint
- Improved code quality by expanding **unit/integration tests**, refining CI pipelines, resolving errors, cutting regression **30%**

### AlgoVerse

Dec 2024 – Feb 2025

*Undergraduate Researcher*

*Palo Alto, CA*

- Built pipeline to reverse engineer **AI models**, using **4 interpretability methods** to recover step-by-step transformer logic
- Measured model stability via Mean Diagonal and Max Off-Diagonal **Cosine Similarity** across SAE checkpoints for **4** tasks
- Deeply analyzed **QK Interpretability** by examining the Query and Key vertices of **64** latents in a **41D** transformer model

### Rutgers University Mathematics Department

Sept 2024 – Dec 2024

*Learning Assistant*

*New Brunswick, NJ*

- Supporting Calculus 1 instruction through **2** weekly meetings with **18 first-year students** to bolstering understanding
- Designing collaborative activities to promote **active learning**, improving students' performance on assessments by **15%**
- Analyzed **weekly performance trends** to identify common challenges, adapting activities to boost student comprehension

## PROJECTS

### Tennis RT | *Python, YOLOv8, OpenCV, Docker, Streamlit*

- Built a **real-time computer vision pipeline** using **YOLOv8**, **MediaPipe Pose** to process & analyze tennis footage
- Engineered metric modules for speed, spin, trajectory, arm mechanics, enabling comparison with **15+** years of ATP data

### FreshCam | *TensorFlow.js, React Native, FastAPI*

- Developed a **mobile app** that analyzes produce freshness in **<5s**, supporting **food-waste reduction** & **colorblind users**
- Trained **TensorFlow.js** model to classify produce into **3** distinct ripeness stages, reporting results with **confidence score**

### Shadow Striker | *Python, Computer Vision, GrabCut, Web Development*

- Developed a **web application** featuring a library of **50+** professional cricketers where users guess the silhouetted batsman
- Built a **CV pipeline** using **YOLO** to detect objects across **100+ frames/shot**, using **GrabCut** for detailed silhouettes