

Dhruv Parashar

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EDUCATION

Rutgers University–New Brunswick	May 2027
<i>Bachelor of Science in Computer Science, Minor in Mathematics</i>	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
<i>Software Engineer Intern</i>	<i>Boston, MA</i>
<ul style="list-style-type: none">Built 5+ AI workflows in n8n using Python, APIs, and web scraping to automate design & trend insights for WayfairDeveloped 3 AI agents for trend discovery, competitor monitoring, content generation across 50+ e-commerce brandsCollaborated in an agile, microservice environment with code reviews & workflow documentation to ensure reliability	
DP Data Solutions	Jan 2025 – May 2025
<i>Software Engineer Intern</i>	<i>North Brunswick, NJ</i>
<ul style="list-style-type: none">Developed and optimized backend features in a microservice, improving API execution by 20% stabilizing data workflowsBuilt Python and TypeScript based automation scripts & integrations eliminating 15+ hours of manual work per sprintImproved code quality by expanding unit/integration tests, refining CI pipelines, resolving errors, cutting regression 30%	
Algoverse	Dec 2024 – Feb 2025
<i>Undergraduate Researcher</i>	<i>Palo Alto, CA</i>
<ul style="list-style-type: none">Built pipeline to reverse engineer AI models, using 4 interpretability methods to recover step-by-step transformer logicMeasured model stability via Mean Diagonal and Max Off-Diagonal Cosine Similarity across SAE checkpoints for 4 tasksDeeply 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
<i>Learning Assistant</i>	<i>New Brunswick, NJ</i>
<ul style="list-style-type: none">Supporting Calculus 1 instruction through 2 weekly meetings with 18 first-year students to bolstering understandingDesigning 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 <i>Python, YOLOv8, OpenCV, Docker, Streamlit</i>
<ul style="list-style-type: none">Built a real-time computer vision pipeline using YOLOv8, MediaPipe Pose to process & analyze tennis footageEngineered metric modules for speed, spin, trajectory, arm mechanics, enabling comparison with 15+ years of ATP data
FreshCam <i>TensorFlow.js, React Native, FastAPI</i>
<ul style="list-style-type: none">Developed a mobile app that analyzes produce freshness in <5s, supporting food-waste reduction & colorblind usersTrained TensorFlow.js model to classify produce into 3 distinct ripeness stages, reporting results with confidence score
Shadow Striker <i>Python, Computer Vision, GrabCut, Web Development</i>
<ul style="list-style-type: none">Developed a web application featuring a library of 50+ professional cricketers where users guess the silhouetted batsmanBuilt a CV pipeline using YOLO to detect objects across 100+ frames/shot, using GrabCut for detailed silhouettes