Mannan Shukla

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Technical Skills

javascript, python, java, c, sql, nextjs, react, node, mongodb, pytorch, springboot, fastapi, ollama, whisper, unsloth, openai api, huggingface, yolov8, docker, kubernetes, aws solution architecture, linux system administration, nix

Experience

Partnerships Intern   Feb 2025 - May 2025
nas.io   *New York, NY*
– Reached thousands of fitness and finance influencers through targeted outreach campaigns for Series A Startup
– 50x'd influencer identification efficiency by building automated pipeline with Python, Klaviyo, Google Sheets, and Influencity for email drip campaigns and personalized DMs
– Gained direct sales experience through taking and shadowing client warm and cold calls
– Generated $2K in GMV in 1 month by successfully onboarding 5 major clients onto the platform

Teaching Assistant   Jan 2025 - May 2025
Rutgers University   *New Brunswick, NJ*
– TA for 33:382:340 - Innovation, Creativity, and Entrepreneurship under Professor Mukesh Patel
– Automated grade management through Canvas integration, Qwickly attendance tracking, and Google Sheets automations

Independent Researcher — SuperAgent   Apr 2024 - Dec 2024
Rutgers University   *New Brunswick, NJ*
– Independent Research under Prof. Yongfeng Zhang developing novel agent recommendation system for LLM-based operating systems
– Achieved 83% accuracy compared to GPT-4 ground truth using 1B parameter model, approaching 86% accuracy of 8B model
– Employed transfer learning through LoRA fine-tuning via Unlsloth for small local parameters to approach GPT-4 performance

Web Developer   June 2023 - July 2023
American Louvered Roof   *Trenton, NJ*
– Generated 10 new client contracts by establishing and managing company's digital presence
– Developed responsive company website using Bootstrap, improving online visibility and lead generation

Student Design Researcher   May 2023 - June 2023
IDEA Rutgers   *New Brunswick, NJ*
– Built a Bootstrap volunteer intake portal that programmatically generates print-ready forms with PyPDF, replacing paper

Projects

tochi.one — Full-stack AI property management platform   Mar 2025 - Present
– Engineered tenant risk assessment system using PyTorch logistic regression for data-driven screening
– Automated maintenance ticket generation and classification using Twilio and Gemini API integration
– Built modern, responsive interface using Next.js and shadcn/ui, deployed on Vercel infrastructure
– Drove product adoption through continuous stakeholder engagement at local real estate networking events

AdBlockIRL — AR ad-blocking proof-of-concept for Meta Quest   May 2025
– Trained YOLOv8 model on Roboflow to achieve real-time advertisement detection in video streams
– Implemented live video manipulation using OpenCV to apply mosaic censoring effect on detected advertisements
– Won $2000 in prizes at Bain Capital Ventures AI Hackathon in NYC

SlopGen — Automated "fun facts" short-form video generator   June 2024 - Sep 2024
– Engineered content retrieval system using yt-dlp for programmatic video downloading and WhisperX for accurate transcription
– Implemented sentence segment classification using llama3 via ollama with RLHF
– Developed voice endpoint with Edge-TTS and Retrival Voice Changer to replicate ElevenLabs functionality

Education

Rutgers University - New Brunswick   May 2025
Bachelor of Science - Computer Science • GPA: 3.5
– Student Linux User Group (President), Road to Silicon Valley Program, Cybersecurity Club, Photography Club

Awards

• BCV AI for Work and Life Hackathon: Best Viral Internet Product

• Rutgers IDEA Discovery Fund recipient for tochi.one

• HackRU Fall 24: Best Use of DataBricks