

# MANNAN SHUKLA

Robbinsville, NJ • US Citizen

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## TECHNICAL SKILLS

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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, git

## EXPERIENCE

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### 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 Influency 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 Unsloth 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

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### 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 Retrieval Voice Changer to replicate ElevenLabs functionality

## EDUCATION

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### 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

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- 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