

MANNAN SHUKLA

Robbinsville, NJ • US Citizen

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EDUCATION

Rutgers University - New Brunswick

Bachelor of Science - Computer Science • Cum Laude

- Student Linux User Group (President), Road to Silicon Valley Program, TA 33:382:340, Cybersecurity Club, Photography Club

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**, and **Influencerity** for emails
- Developed internal tool using **toutatis** and **Tailwind** that 2x'd weekly identification output for other interns
- Led and shadowed high-stakes client calls, including cold outreach and warm lead follow-ups
- Generated \$2K in GMV in 1 month by successfully onboarding 5 major clients onto the platform

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 OS
- 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

Chief Technology Officer

Dec 2021 - Present

Hridyam Inc

Princeton, NJ

- Led development of HIPAA-compliant telehealth platform using **AWS** services including **ECS**, **RDS**, **S3**, and **CloudFront**
- Implemented robust IAM policies and encryption protocols following healthcare security best practices
- Provided digital transformation consulting to 5+ healthcare clients, modernizing legacy systems with cloud-native solutions

PROJECTS

tochi.one — Full-stack AI property management platform

Mar 2025 - Present

- Reduced tenant defaults by 25% through **PyTorch** logistic regression risk assessment system for data-driven screening
- Saved clients 10hr of manual processing time per month by automating maintenance ticket creation with **Twilio** and **Gemini**
- 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** achieving 5ms latency detection of 100+ concurrent advertisements 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 (FLORA track winner, Pond prize winner)

SlopGen — Automated "fun facts" short-form video generator

June 2024 - Sep 2024

- Engineered content retrieval system using **yt-dlp** for programmatic downloads and **WhisperX** for accurate transcription
- Achieved 92% accuracy in content segmentation using **llama3** via **ollama** with RLHF, 15x faster than manual classification
- Developed voice endpoint with **edge-tts** and **Retrival Voice Changer** to for custom tts voices (your own or from recordings)

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

TECHNICAL SKILLS

JavaScript, TypeScript, Python, Java, C, SQL, Next.js, React, Node, MongoDB, Redis, Supabase, PostgreSQL, PyTorch, Spring Boot, FastAPI, LangChain, Whisper, Unsloth, Hugging Face, YOLOv8, Docker, Kubernetes, AWS Solution Architecture, Nginx, Linux sysadmin, Nix, Git, Bootstrap, Twilio, Vercel, OpenCV