

Sahil Bachu

ML Researcher & Software Engineer

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Objective: Seeking full-time offers and internships from January 2027

EDUCATION

Rochester Institute of Technology

Rochester, NY

Bachelor of Science in Computer Science, GPA: 3.8

Graduating Dec. 2026

- **Relevant Coursework:** Data Structures, Algorithms, OOP, Computer Architecture, Intro to AI

EXPERIENCE

ML Researcher

May 2026 – Aug. 2026

Clarkson University

Potsdam, NY

- Built a PyTorch triplet-loss embedding network for open-set user authentication via mouse dynamics
- Trained and benchmarked across 3 behavioral biometrics datasets: Balabit, ChaoShen, and DFL

Security Intern

Jun. 2025 – Aug. 2025

Swif.ai

Sunnyvale, CA

- Integrated Swif's MDM platform with Wazuh for real-time log monitoring across 500+ managed devices
- Deployed AI-driven vulnerability detection, automating risk reporting for 100% of flagged devices

App Developer Intern

May 2025 – Jun. 2025

Protego

Santa Clara, CA

- Shipped new features and extended scam-detection coverage to 3+ apps including Telegram

App Developer Intern

Jun. 2023 – Jul. 2023

Setu

Bangalore, India

- Built a sample Android app replicating Setu's Web APIs, cutting developer onboarding friction

PROJECTS

Dispatch | Next.js, Vapi, Supabase, Trigger.dev, Clerk

- Built an AI voice-calling app automating outbound vendor calls to aggregate quotes end-to-end
- Designed a 9-stage runtime pipeline orchestrating call execution, transcription, and structured data sync

BeatCode | Next.js, E2B Sandboxes, GitLab, Elo Rating

- Built a LeetCode-equivalent platform for agentic coding with sandboxed execution and Elo-based ranking

Privacy Policy Simplifier | Full-Stack, NLP, Flesch-Kincaid

- Researched readability gaps across 2 document types (marketing vs. privacy) using Flesch-Kincaid scoring
- Deployed a full-stack tool reducing legal jargon to plain English with interactive Q&A

Academic Companion | React, Tauri, Local LLMs

- Developed a privacy-first desktop app for 100% offline, local-model querying of notes and documents

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, Go, Java, C, C++, HTML/CSS

Frameworks: React, Node.js, Next.js, PyTorch, LangChain, Tailwind CSS

Focuses: ML/AI Research, RAG, Behavioral Biometrics, Full-Stack, Desktop Apps (Tauri), Vector Databases

Tools: Git, Supabase, E2B, Vapi, Docker

LEADERSHIP & ACTIVITIES

Manager, Google Developer Student Clubs

Apr. 2024 – May 2025

Vellore, India