

Sri Sai Sathvik Pidikiti

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SUMMARY

CS sophomore researching security/privacy standards at NJIT's SPUR Lab, with hands-on experience building data pipelines, real-time systems, and browser-based AI tools. Broadly interested in research and emerging technology.

EDUCATION

New Jersey Institute of Technology

Aug. 2025 – Present

B.S. Computer Science, Ying Wu College of Computing — GPA: 3.839 (Dean's List, Fall 2025 & Spring 2026)

Newark, NJ

- Relevant Coursework: Python, Java, Calculus I & II, Physics I & II, English Composition

RESEARCH EXPERIENCE

Research Assistant — SPUR Lab

May 2026 – Present

NJIT | Supervisor: Prof. Nathan Malkin

Newark, NJ

- Built a full **Python** extraction pipeline pulling **128,442+ standards** from 420+ state PDFs across 44 states into structured, ML-ready datasets
- Analyze and classify security and privacy teaching standards across **K-12** education in the U.S. using a structured taxonomy and **SQLite** databases to support an academic publication
- Work independently through environment setup and tooling challenges to deliver clean, structured datasets

RESEARCH & WRITING

Artificial Intelligence in Cybersecurity — White Paper

Mar. 2026

- Authored an 11-page research paper analyzing AI's dual role in cybersecurity: ML-based threat detection, generative AI attack automation, adversarial attacks on AI systems, and privacy/ethics implications
- Synthesized peer-reviewed sources across threat intelligence, adversarial ML, and organizational security policy to argue for a human-AI collaborative security framework

Why Artificial Intelligence Can't Replace Human Workforce in Cybersecurity

Apr. 2026

- Wrote an 8-page paper examining AI limitations in cybersecurity: false positives, adversarial evasion, and the role of human judgment in threat interpretation
- Communicated technical ML and security concepts to a non-specialist audience, citing U.S. Bureau of Labor Statistics projections and current industry research

PROJECTS

Phoenix Workspace — Browser Productivity Extension

2026 – Present

- Developed a performance-optimized Chrome extension (Manifest V3) combining a productivity workspace and mini-arcade overlay, running natively on Chrome's on-device Gemini Nano engine
- Implemented on-device AI inference for in-browser features, avoiding external API calls; built custom **HTML5 Canvas** rendering for interactive overlay elements
- Finalizing Chrome Web Store submission, including on-device model verification and output quality refinement

Ember — Real-Time Team Engagement Platform

2026 – Present

- Built a real-time collaboration platform that visualizes team activity and sentiment on a shared interactive canvas with live room presence
- Implemented real-time data sync with **Supabase**, Google OAuth authentication, and **WebSockets** for multi-user live updates
- Evaluating technical approaches and scalable architecture patterns to guide the development of a larger-scale platform

EXPERIENCE

Special Event Technician

May 2026 – Present

NJIT – Media Technology Support Services | Supervisor: Sam Pierre

Newark, NJ

- Operate audio mixing consoles, wireless microphone systems, projection, and video conferencing hardware across **50+ campus events (30 to 1,500+ attendees)**, troubleshooting live to keep programming on schedule
- Coordinate with event organizers to translate run-of-show requirements into technical setups under tight pre-event windows

Mailroom Assistant

Jan. 2026 – Present

NJIT – University Operations | Supervisor: Tyeesha Craighead

Newark, NJ

- Rated **Outstanding (top 5%)** for Independence & Communication Skills; direct weekly distribution of mail and packages to resident students, processing **60-70+ packages daily**

SKILLS

Programming: Java, Python, C/C++, HTML, CSS, JavaScript, AJAX, Git/GitHub

Tools & Platforms: VSCode, IntelliJ, Eclipse, Docker, Playwright, Ollama, Supabase, Google Cloud, Claude Code, MCP, LaTeX, Airtable

Research & Data: Large-scale data extraction and pipelines, structured data analysis (CSV/ML-ready datasets), technical writing, literature synthesis

AV & Systems: Camera operation (DSLR/video), audio/video troubleshooting, Windows, Linux, network basics

Languages: Telugu (Native), English (Fluent), Hindi (Beginner)