Ritanshu Singh

Fort Lauderdale, FL 33301 | (954) 658-2329 | rs2993@mynsu.nova.edu | github.com/Ritanshu0001
linkedin.com/in/ritanshu-singh

Summary

Computer Science undergraduate at Nova Southeastern University (May 2027), concentrating in AI & Cybersecurity. Builds and tests backend and full-stack systems in Python, Java, JavaScript, and Swift, spanning REST APIs, SQL/NoSQL data models, and AI-driven features. Lead engineering intern on a production AI product. Dean's List, Fall 2025 through Winter 2026.

Technical Skills

Languages	Python, Java, JavaScript, C++, Dart, HTML, CSS
Frameworks & Libraries	React.js, Flask, Node.js, Flutter
Databases	MySQL, MongoDB, Supabase
Tools & Platforms	Git, GitHub, Postman, Linux, Raspberry Pi, Microsoft Office 365, Claude Code, GPT Codex
Methodologies	OOP, REST API Design, Agile/Scrum, SDLC, Unit & Integration Testing, Embedded Systems

Experience

Supplemental Instruction Leader **Aug 2026 – Present**
Nova Southeastern University Tutoring Center Davie, FL
- Lead Supplemental Instruction sessions for TECH 3200: Artificial Intelligence in Action, strengthening student grasp of core AI concepts
- Support troubleshooting and project development across classification, predictive models, and responsible AI use

Lead Software Engineering Intern **Nov 2025 – Present**
Busy Moms Assistant AI Fort Lauderdale, FL
- Developed and maintained features across Agile sprint cycles; built a knowledge base that improved issue resolution
- Diagnosed and resolved backend and REST API defects, validating fixes with Postman to cut recurring production incidents
- Designed and executed automated and manual regression and integration tests aligned with SDLC and security guidelines
- Collaborated cross-functionally on AI-powered automation workflows, refining configurations to reduce manual processing

Front Desk Staff **Nov 2023 – Jan 2024**
Housing Office, Nova Southeastern University Fort Lauderdale, FL
- Resolved resident access and facility issues in person and by phone; maintained asset and access logs

Education

Bachelor of Science — Computer Science with minors in A.I, Cybersecurity and Mathematics **Expected May 2027**
Nova Southeastern University Fort Lauderdale, FL
- GPA: 3.45/4.0 | Dean's List — Fall 2025, Winter 2025 & Winter 2026

Projects

KUMA — AI Personal Running Coach
- Built backend services for a native iOS AI running coach (Swift, SwiftUI): training-data workflows, database design, and APIs for adaptive workouts
- Modeled athlete profiles, training history, workout feedback, and recovery signals as coaching context for safer guidance tuned to user goals

BrightBoard — Learning Management System | github.com/Ritanshu0001/BrightBoard
- Built a full-stack LMS with React.js, Flask, and MongoDB; implemented role-based access control and RESTful APIs with documented contracts and error handling
- Debugged state management edge cases with React Hooks to keep data access consistent across user roles

Embedded Edge AI Cooking Assistant | github.com/Ritanshu0001/CookPilot
- Building an edge AI cooking assistant on Raspberry Pi 5 using camera and mic input for real-time ingredient detection and voice-guided recipes
- Developing an embedded Linux pipeline in Python for on-device inference and event-driven control of multi-step cooking workflows

Weather Application | github.com/AllenDWorrell/flutterWeatherApp
- Built a cross-platform weather app in Flutter and Dart with real-time REST API integration and geolocation search, tested across device configurations

Leadership & Activities

Academic Senator **Fall 2026 – Present**
Undergraduate Student Government Association, College of Computing, AI & Cybersecurity Nova Southeastern University
- Elected to represent the College of Computing, AI & Cybersecurity in university-wide student government
- Write and work on university-wide legislation, advocating for academic policy and student interests

IOC Chair **Fall 2024 – Present**
We Are Saath Nova Southeastern University
- Lead inter-organizational coordination, planning collaborative events across student organizations

Chapter Member **Fall 2025 – Present**
Association for Computing Machinery (ACM) Nova Southeastern University
- Engage with the computing community through technical workshops and networking events

Member **Aug 2024 – Aug 2025**
Kappa Theta Pi Nova Southeastern University
- Participated in the professional technology fraternity, attending development events and building industry connections

Languages

English, Hindi Native / Bilingual