Romil N. Patel

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Objective

Computer Engineering student passionate about Software/Hardware integration, Digital Design, and AI. Strong foundation in programming, embedded systems, and digital logic. Seeking a Summer 2026 internship in Software Engineering, Hardware Engineering, Chip Design or AI to leverage technical and analytical skills on real-world systems.

Education

Georgia Institute of Technology | Atlanta, GA ***August 2024 – Present***
Bachelor of Science in Computer Engineering, GPA: 3.2 **Expected Graduation:** May 2027

SUNY Stony Brook University | Stony Brook, NY ***August 2023 – May 2024***
Transfer with 33 Credit Hours, GPA 3.90

Skills

Programming: Java, Python, C/C++, C#, JavaScript, SQL, HTML, CSS, RISC-V Assembly, System Verilog, VHDL
Frameworks/Tools: React, Node.js, Django, MongoDB, Quartus II, NI LabVIEW, Git, Stripe, Twilio
Hardware: ARM mbed, Raspberry Pi, FPGAs, Logic Analyzer, Oscilloscope
Platforms: Linux (Ubuntu), macOS, Windows
Communication: Design proposals, technical reports, instruction manuals, presentations (large and small audiences)
Languages: Gujarati (conversational), English (fluent), Spanish (conversational)

Experience

Georgia Institute of Technology | Atlanta, GA ***August 2024 – Present***
TSO Technical Assistant / College of Computing (CoC)

- Provided technical support to faculty and students, resolving 20-30 support tickets per week and maintaining a high satisfaction rate
- Managed a database of over 4,000 devices, ensuring compliance with security protocols and task sequence accuracy for software deployment.

Lyft Back-End Engineering Job Simulation (Virtual – Forage) ***May 2024 – June 2024***
Participant

- Completed the Back-End Engineering job simulation, taking over development of an unfinished project for the Lyft Rentals team.
- Designed a UML class diagram to reorganize the architecture and implemented unit tests to improve code reliability.
- Refactored legacy code using test-driven development (TDD) principles and added new functionality to meet project requirements.

Projects

Quick & Quality Website / Ordering Platform ***Summer 2025***
Programmer

- Built a customer and admin-facing food ordering platform using React (frontend), Node.js (backend), and MongoDB (database).
- Integrated Stripe API for payments and Twilio API for SMS order confirmations.
- Admin dashboard features real-time revenue tracking and analytics for best-selling items and helped increase business by 15%.

Relevant Coursework

Computer Architecture, Systems, Concurrency and Energy: Analyzed multi-cycle and pipelined data paths, cache organization, and virtual memory systems; studied instruction-level scheduling, hazard handling, I/O mechanisms, and performance/energy trade-offs in modern processors.
AI First: Explored foundational AI concepts, algorithm design, and data literacy; implemented real-world AI applications using tools like NumPy and scikit-learn, while evaluating models and addressing ethical implications.

Activities

Undergraduate Researcher – Omni Lab for Intelligent Visual Engineering & Science (OLIVES) ***May 2025 - Present***

- Collaborating with faculty to deploy AI/software applications (Flask, Node, Python) to Georgia Tech's new AI Makerspace
- Documenting deployment pipelines to support university-wide developer access and scalability.