Raghav Dheri

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EDUCATION

Stony Brook University Stony Brook, NY

Bachelor of Science in Computer Science, Applied Mathematics & Statistics **Graduating:** May 2026
- **Honors:** University Scholarship for Academic Excellence, Dean's List **GPA**: 3.5/4.0
- **Relevant Coursework**: Data Structures, Algorithms, Software Engineering, Full-Stack Web Development, Computer Networks, Artificial Intelligence, Logic, System Fundamentals, Programming Abstractions

SKILLS

Programming Languages: Java, Python, JavaScript/TypeScript, Swift, C, SQL, HTML/CSS, Bash
Frameworks & Technologies: React, Node.js, Express, Spring Boot, BeautifulSoup, MongoDB, PostgreSQL, Kafka
Infrastructure & Tools: Docker, Jenkins, Git, JIRA, Agile, CI/CD, REST APIs, ETL, Test-Driven Development

PROFESSIONAL EXPERIENCE

Software Engineer Intern Jun 2025 – Aug 2025
Genpact *Remote*
- Transformed regulatory workflows by building 10+ **Python** scrapers (**Selenium** and **BeautifulSoup**) that extracted website and PDF content, structuring it into Excel reports (OpenPyXL) and reducing data collection time by **75%**.
- Built a RAG-powered financial recommendation system combining custom cashflow forecasting with **Ollama LLM**, achieving **95+%** accuracy on 12-month projections and enabling insight extraction from 500+ financial documents.

Research Assistant Aug 2024 – May 2025
NetSys Lab, Stony Brook University *Stony Brook, NY*
- Developed an on-device iOS gesture-recognition app (**Swift**, **Core ML**) that classifies 8 gestures at 94% accuracy, enabling screen-free navigation for visually-impaired users through iterative user feedback.
- Optimized and drove gesture-classification by retraining the model on an expanded dataset, increasing precision by 25% and reducing false positives to under 4 per hour.

Software Developer Intern Jun 2024 – Aug 2024
Falcon Technologies *New Delhi, India*
- Designed distributed payment processing system handling 3,000 requests/second using **Java microservices** and **Spring Boot**, collaborating with cross-functional teams to reduce transaction latency by 15%.
- Established **Jenkins**-based **CI/CD** pipeline by integrating automated test suites and optimizing build scripts, cutting merge-to-production time from 25 min to 15 min and lifting test coverage from 60% to 88%.

TECHNICAL PROJECTS

P4SBU (Parking for Stony Brook University) | Live Demo | *React.js, Node.js, Express, Python*
- Led a 4-developer team to build a **full-stack** parking reservation platform increasing search efficiency by 40% with real-time spot tracking across 20+ lots, AI-based occupancy forecasting, **Stripe** payments, and Dijkstra-based routing.
- Architected real-time spot locking system to handle 1000+ concurrent reservations; implemented admin dashboard with approval workflows, analytics, and automated email response—achieving sub-200ms response times.

CoCode - Real-Time Collaborative Code Editor | *React/TypeScript, Node.js, Express, Socket.io, Redis*
- Engineered a real-time collaborative code editor using **React/TypeScript** and **Socket.io**, implementing Operational Transforms for conflict-free concurrent editing across 50+ rooms with sub-100ms cursor synchronization.
- Built **Docker**-sandboxed code execution engine supporting 7+ languages with container pooling (reducing cold starts by 57%), queue management, and timeout handling.