

Raghav Dheri

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EDUCATION

Stony Brook University

Bachelor of Science in Computer Science, Applied Mathematics & Statistics

Honors: University Scholarship for Academic Excellence; Dean's List

Stony Brook, NY

Graduating: May 2026

GPA: 3.51/4.0

PROFESSIONAL EXPERIENCE

Software Engineer Intern

Genpact

Jun 2025 – Aug 2025

Remote

- Built 10+ Python scrapers (Selenium, BeautifulSoup) to extract regulatory data from websites and PDFs into structured Excel reports, reducing manual collection time by **75%**.
- Developed **RAG**-powered financial recommendation system with custom cashflow forecasting and Ollama LLM, achieving **95%+ accuracy** on 12-month projections across 500+ documents.

Research Assistant

NetSys Lab, Stony Brook University

Aug 2024 – May 2025

Stony Brook, NY

- Developed iOS gesture-recognition app (Swift, **Core ML**) classifying 8 gestures at **94% accuracy**, enabling screen-free navigation for visually-impaired users in 12-participant pilot study.
- Retrained model on 2,400-sample dataset, improving precision from 75% to 94% and cutting false positives from 18 to under 4 per hour.

Software Developer Intern

Falcon Technologies

Jun 2024 – Aug 2024

New Delhi, India

- Designed distributed payment processing system handling **3,000 req/sec** using Java microservices and **Spring Boot**, reducing transaction latency by 15% across 3 services.
- Built Jenkins CI/CD pipeline with automated testing, cutting merge-to-production time by 40% (25→15 min) and raising test coverage from 60% to 88%.

TECHNICAL PROJECTS

P4SBU – Campus Parking Management System | *React, Node.js, Express, Python* | [Live Demo](#)

- Led 4-person team building full-stack parking platform with real-time tracking across 20+ lots, improving search efficiency by **40%** using AI occupancy forecasting and Dijkstra routing; load-tested with 2,000+ simulated users.
- Architected spot-locking system handling 1,000+ concurrent reservations with sub-200ms response; built admin dashboard with analytics and Stripe integration.

CoCode – Real-Time Collaborative Code Editor | *React/TypeScript, Node.js, Socket.io, Redis, Docker*

- Engineered real-time collaborative editor using Operational Transforms for conflict-free concurrent editing, supporting 50+ simultaneous rooms with sub-100ms cursor synchronization.
- Built **Docker**-sandboxed execution engine supporting 7 languages with container pooling, reducing cold starts by **57%** and capable of handling 500+ concurrent executions.

LEADERSHIP EXPERIENCE

Teaching Assistant — Data Structures & Algorithms

Stony Brook University

Jan 2024 – May 2024

Stony Brook, NY

- Redesigned recitation curriculum with live-coding sessions for 35+ students, boosting attendance 20% and quiz scores 30%.

Hall Council President

Stony Brook University, Campus Housing

Aug 2023 – May 2024

Stony Brook, NY

- Led 9-person council serving 300+ residents; managed \$1.5K budget across 15 events, growing average attendance from 20 to 45.

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