

# 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

Jun 2025 – Aug 2025

Genpact

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

Aug 2024 – May 2025

NetSys Lab, Stony Brook University

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

Jun 2024 – Aug 2024

Falcon Technologies

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

Jan 2024 – May 2024

Stony Brook University

Stony Brook, NY

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

### Hall Council President

Aug 2023 – May 2024

Stony Brook University, Campus Housing

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