

Lara Gouda

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Education

Stony Brook University

Aug 2024 - May 2028

Bachelor of Science in Computer Science

3.54 GPA

- Awards: Dean's List | Presidential & Valedictorian Scholarships | **HopperHacks Winner**
- Coursework: Object Oriented Programming (Java), Data Structures (Java), System Fundamentals I & II (C), Scripting Languages (Python), Data Science (Python), Linear Algebra

Professional Experience

Arabic Language Acquisition Research Team, Stony Brook University

Stony Brook, NY

Undergraduate Research Assistant

Sep 2026 – Present

- Collaborate with an 18-student interdisciplinary research team and faculty lead to redesign Arabic pronunciation training.
- Maintain and extend a **full-stack** speech experiment platform hosted on **DigitalOcean**, using **Node.js**, **Express.js**, JavaScript, and **SQLite** to support 100-prompt recording sessions and persist participant data.
- Research integration of an open-source Arabic phoneme recognition model and spectrogram-based acoustic analysis to detect pronunciation errors and design real-time feedback that identifies mispronounced segments.

Department of Information Technology, Stony Brook University

Stony Brook, NY

Academic Software IT Support

Jan 2026 – Present

- Support Brightspace and academic tools for **26,000+ students and faculty**, troubleshooting issues and escalating cases.
- Investigate issues across **7,500+ courses**, reproducing defects and documenting root causes for supervisors and vendors.
- Lead 30-minute technology workshops for students and faculty across varying levels of technical experience.
- Selected as **1 of 11 interns from 250+ applicants** and earned 1 of 5 return offers as an IT Support & Specialist.

Projects

Blue Nile Catering Platform | React, TypeScript, Stripe, Google API, Resend, REST APIs

Jul 2026

www.bluenilecatering.net

- Built and launched a **full-stack** platform for a live catering business, with a searchable menu, cart, and owner dashboard.
- Engineered a **Stripe** authorization-and-capture workflow across 7 payment states using custom **REST APIs** and webhooks, allowing the kitchen to approve orders before customers are charged.
- Automated orders via Google Sheets API and Resend: 8 transactional email workflows, secure access codes, and reminders.

Wallsense | C++, Python, PyTorch, MediaPipe, ESP-IDF

Feb 2026

- Won **Best Hardware at HopperHacks (160+ participants)** for through-wall people detection with WiFi CSI.
- Built a real-time pipeline processing ~100 CSI packets/sec from dual ESP32-S3 devices at sub-second latency.
- Fine-tuned an open-source **PyTorch** model on a public Wi-Fi CSI dataset, reaching **95% classification accuracy**.

FollowUp | React, TypeScript, Supabase, NeuralSeek, Google APIs, SQL

Nov 2025

www.followup.codes

- Deployed a **full-stack** AI meeting assistant that turns transcripts into action items, email drafts, and calendar events.
- Built a **Supabase** backend (Edge Functions, PostgreSQL) with Google OAuth and Gmail/Calendar APIs for drafts/events.
- Orchestrated 5 NeuralSeek agents and engineered structured-JSON prompts, refined across 20+ meeting transcripts.

Leadership Experience

Stony Brook Computing Society

Stony Brook, NY

Secretary, Executive Board

May 2026 – Present

- Manage documentation for an 11-person leadership team for a **300+ member** club using ClickUp and Google Workspace.
- Coordinate 20+ events per semester, aligning owners and deadlines across the executive board and committees.
- Support SBUHacks sponsor outreach, helping secure partnerships toward a **\$20K+ fundraising goal**.

Skills

Languages: Java, Python, C/C++, JavaScript, TypeScript, HTML/CSS, SQL | **Spoken:** English, Arabic

Frameworks & Tools: React, Node.js, Express.js, PyTorch, Supabase, Stripe, Google APIs, REST APIs, DigitalOcean