

Gabriela Nirmal

Honors Computer Science Undergraduate

CONTACT

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EDUCATION

Northeastern University

Honors Program

B.S. in Computer Science

Concentration in Artificial Intelligence

Minor in Global Fashion Studies

Boston, MA | Sept 2023 - May 2027

COURSES

Web Development

Machine Learning 1 & 2

Artificial Intelligence

Algorithms and Data Structures

Object-Oriented Design

Theory of Computation

SKILLS

JavaScript

TypeScript

Python

React

HTML

CSS

Next.js

Chakra UI

Git

NumPy

Scikit-learn

Keras

TensorFlow

PyTorch

EXPERIENCE

VIMEO

Frontend Platform Intern

June 2025 - Nov 2025

NYC, NY

- Managed design systems deprecating legacy hooks, styles, and components across 600+ files
- Executed core component migrations for the Bokeh library upgrade from Chakra UI V2 to V3
- Migrated legacy PHP pages to Next.js to modernize the stack and improve platform performance
- Developed reusable UI components, such as an AvatarGroup, to expand the internal library
- Provided technical support via Slack to help resolve design system implementation bugs

React, Chakra UI, TypeScript, Next.js, Ark UI, Storybook

THE AVENUE

Web Developer

Jan 2026 - Present

Boston, MA

- Redesigned the website for Northeastern's fashion magazine to a high-end editorial look, collaborating with creative directors to translate print aesthetics into a web-optimized format
- Developed custom HTML & CSS within Squarespace to create a unique, responsive interface that exceeds template limitations and boosts The Avenue's digital presence
- Restructured site architecture within Squarespace, implementing collection pages to enable dynamic article aggregation and maintain consistent, scalable page formatting across the site

HTML, CSS, UI/UX Design, Web Design, Squarespace

NIRMAL CLOTHING

Crochet Business Founder

Nov 2022 - Present

Boston, MA

- Produced custom, one-of-a-kind crochet garments tailored to individual client specifications
- Managed end-to-end business operations including garment design, branding, marketing, client communications, and shipping logistics across 300+ custom orders
- Leveraged Instagram (@nirmalclothing) and local vendor partnerships to grow customer base, build brand awareness, and drive sales growth

Crochet, Textile Design, Content Creation, Social Media Marketing, Customer Relations

PROJECTS

TEXTILE PATTERN GENERATION INTERFACE

In Progress

- Built a grid-based canvas system in React and TypeScript enabling precise pixel-to-stitch mapping, allowing fiber artists to design and visualize complex textile patterns with accuracy, translating digital illustrations into physical textile construction guides

React, TypeScript, Chakra UI

ZARA SALES DATA ANALYSIS

April 2025

- Developed a predictive model in Python using NumPy and Pandas to forecast item profitability and analyze fast-fashion consumer purchasing patterns
- Engineered features using seasonality, promotional status, in-store placement, price, and more, applying one-hot encoding, MinMax scaling, and Ridge Regression to reduce overfitting with a custom gradient descent algorithm to optimize margin predictions

Python, NumPy, Pandas

IMAGE-BASED TEXTILE COMPOSITION CLASSIFIER

Nov 2024

- Built a multimodal deep learning model in PyTorch using a fine-tuned ResNet-50 backbone to extract image features and predict fabric composition from clothing images
- Designed a single-head self-attention mechanism to aggregate features across multiple images, fused with clothing type embeddings via Feature-wise Linear Modulation (FiLM)
- Implemented a custom combined loss function incorporating BCE, MSE, sparsity, and count penalties with inverse-frequency class weighting to handle fabric class imbalance

Python, NumPy, PyTorch