

# Gabriela Nirmal

Honors Computer Science Undergraduate

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## CONTACT

### WEBSITE

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### GITHUB

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### LINKEDIN

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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

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### VIMEO

June 2025 - Nov 2025

#### Frontend Platform Intern

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

Jan 2026 - Present

#### Web Developer

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

Nov 2022 - Present

#### Crochet Business Founder

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

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### 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