

Grace Fei

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EDUCATION

The University of North Carolina at Chapel Hill, Chapel Hill, NC
Bachelor of Art (BA): Computer Science and Studio Arts

GPA: 3.964/4.0
August 2023 - May 2026

Northwest Guilford High School, Greensboro, NC

GPA: 4.0/4.0, 4.733(weighted)

Relevant courses: Comp 301 Foundations of Programming, Comp 211 Systems Fundamentals, Comp 210 Data Structures and Algorithms, Math 381 Discrete Math, Calculus 1 and 2, Data Model and Inference, Intro to Programming

Technical Skills: Python (NumPy, Pandas, Pytorch), Java, JavaScript (React, Axios, Material UI), TypeScript, AWS IAM, CSS, SAS (SAS Base Programming, SAS Advance Programming certificate), Fusion360, Blender, Unity, LabView

WORK EXPERIENCES

Artemis Immersive

Chapel Hill, NC

Software Engineer Intern

February 2024 - Present

- Using Typescript React to develop The Voxscan Orchestration System frontend used to visualize and interact with MRI and CT scans in 3D
- Developed user and admin authentication with AWS Cognito API, Flask backend, and frontend credentialing with tokens
- Used Figma to design frontend and implemented custom components based on Material UI

UNC Department of Computer Science

Chapel Hill, NC

Student Researcher

January 2024 - Present

- Developed neural network model that predicted spacial room acoustic with visual and audio input using transformer-CNN models developed in PyTorch

UNC Department of Physics and Astronomy

Chapel Hill, NC

Research Assistant

August 2023 - Present

- Used Python (NumPy) and LabVIEW to develop fully automated software with an Optical Coherence Tomography (OCT) imaging system and Kinesis motor software, scanning 48 wells hands-free

The3DMachine

Greensboro, NC

Founder, and Owner

Jan 2020-Present

- With over 1000+ sales and an average 5-star review, my founded business combines STEM and art by 3D modeling with Fusion360, 3D printing, and painting. Products can be found in stores at NerdBombers.
- Using the funds to organize annual 3D jewelry design camps with 40+ students across the US, empowering young women in STEM.

PROJECTS

Personal Website

Chapel Hill, NC

Developer

December 2023

- Developed a [personal website](https://gracefei.com) with Javascript (React.js) and CSS to showcase my projects and artwork

LEADERSHIP EXPERIENCES

UNC AR/VR

Chapel Hill, NC

Design Lead of Development Team

2023- Present

- Using Blender and Unity to lead 6 development team members to create 3D assets for a Maze structured game and
- Organizing AR/VR technology events with Exec board, impacting 150+ students