

Anisa Habib

anisa24cs@gmail.com ▪ portfolio: anihab.github.io

EDUCATION

University of Utah — *Honors Bachelors of Science in Computer Science*

2020-2024

SKILLS

Python, C#, C/C++, Java, Kotlin, R, SQL, HTML/CSS, JavaScript, Docker, Adobe CC, Microsoft Office, Illustration

EXPERIENCE

Kahlert School of Computing, University of Utah — *Intern*

May 2023 - May 2024

- Conducted machine learning bioinformatics research under Dr. Sundar, designing and training a large language model (LLM) on bacterial DNA.
- Applied natural language processing techniques and various Python libraries, optimizing model performance against state-of-the-art architectures like Mamba, BERT, and GPT-3.
- Led benchmark analyses, prepared training data, visualizations, and literature reviews, and presented findings at lab meetings and symposiums.
- Co-authored a journal manuscript: *A Comparison of Tokenization Impact in Attention-Based and State Space Genomic Language Models* (DOI 10.1101/2024.09.09.612081).

Utah Population Database, Huntsman Cancer Institute — *Student Researcher*

Oct 2017 - Dec 2021

- Analyzed I-131 exposure and thyroid cancer data in communities affected by nuclear fallout.
- Self-taught R and ArcGIS to conduct statistical and epidemiological analyses, applying models such as Poisson regression.
- Finalist at the 2019 International Science and Engineering Fair for Bioinformatics.

Poppy Lace LLC — *Founder*

Jan 2025 - Current

- Develops and sells handmade personal items, digital goods, and applications with original illustrations.
- Manages product development, branding, and customer engagement to sustain a successful business.

PROJECTS (more in portfolio)

Learning Management System — *C#, ASP.NET, MySQL, LINQ*

- Developed a relational database and back-end server for a learning management system, implementing user roles with varying access levels.

Lifestyle App — *Kotlin, Java, SQL*

- Built an app allowing users to create profiles, receive personalized BMR calculations, find hiking trails, and get weather updates.
- Implemented a Room database to store user-specific data such as height, weight, and activity level.

Productivity Bot — *Python, SQLite, asyncio*

- Developed a Discord bot to help users manage time through reminders, timers, and scheduling tools.
- Utilized the Discord.py library and an SQLite database to store reminders and event messages.

Interactive Chat Room — *JavaScript, Node.js, HTML, CSS*

- Created an interactive chatroom where users design avatars and join chat spaces via unique IDs.
- Implemented user movement, chat bubbles, object interaction, and a persistent chat history feature.

Sprite Editor — *C++, Qt, Docker*

- Developed a pixel-based sprite editor with drawing tools, animation previewing, and document saving/loading capabilities.