

# Anaya Koirala

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## Education

**Gettysburg College** — BS Computer Science, BA Philosophy

May 2028

GPA: 3.77

## Professional Experience

**Software Tutor** - Mathematics Department, Gettysburg College

Jan 2026–Present

- Support students in any quantitative course across the curriculum.
- Focus on Python, LaTeX, Java, Linux and statistical softwares.

**Teaching Assistant for CS I and II** — Computer Science Department, Gettysburg College

Jan 2025–Dec 2025

- Supported approx. 30 students on core programming concepts, OOP, GUI, Data Structures
- Provided assistance with debugging, coursework, and technical issues
- Conducted weekly office hours for individualized support

**Software Developer** — Kha Esports, Kathmandu, Nepal

Jun 2025–Aug 2025

- Developed a website for hosting, managing, and participating in e-sports tournaments
- Built a multiplayer ludo game with bracketed support for 64 players
- Tools Used: FastAPI, MongoDB, React.js, Express.js, nginx

## Relevant Coursework

- **Intro to CS I & II:** Java, OOP, GUI, Program Design, IO, Error Handling, Data Structures
- **Mathematics of Computation:** Combinatorics, Proofs, Graph Theory, Logic
- **Calculus III:** Multivariable and Vector Calculus with Applications
- **Linear Algebra:** Applications in compression, data analytics, Markov chains, IFS
- **Data Structures and Algorithms**
- **Artificial Intelligence (Spring 2026)**

## Technologies

**Languages:** Python, Java, Rust, OCaml, F#, Shell, SQL, Haskell

**Tools:** Linux, BSDs, Windows, LaTeX, JUnit, NumPy, Sage, JavaFX

## Projects

**SubHunt** — Audio-based PvE video game for blind players

[GitHub](#)

- Developed for [Games for Blind Gamers 4](#) game jam using Godot Engine and GDScript
- Led game design and development

**Music-Generating LSTM** — IBDP Extended Essay project

[GitHub](#)

- Self-directed highschool research project in AI generated music emulating certain musical styles.
- Achieved Grade 'A' using Python, LSTM-RNNs, TensorFlow, and NumPy

**codeDP** — Desktop code editor for IB pseudocode

[GitHub](#)

- Built using Python and QT6

## Extra and Co-Curricular Activities

• [The Gettysburgian](#) — Writer

Jan 2025– Present

• **ACM Club** — Webmaster Team and Outreach Chair

Oct 2025 – Present

• **The Gettysburg Cinematics** — Senate Representative

Sept 2025 – Present

• **Quiz Bowl Club** — Senate Representative

Apr 2024 – Present

• **Amnesty International Club** — Treasurer

Sept 2025 – Present

## Awards

• [Andrew Marsh Memorial Award](#) — Gettysburg College

Oct 2025