

# Anaya Koirala

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## Education

- Gettysburg College, Pennsylvania** — BS Computer Science, BA Philosophy *May 2028*
- **GPA:** 3.74
- Ullens School IBDP, Kathmandu** — International Baccalaureate Diploma *May 2024*

## Professional Experience

- Peer Learning Assistant** — Computer Science I and II (CS 111/112) *Jan 2025–*
- Tutored approximately 20 students on core programming concepts during class
  - Provided assistance with debugging, coursework, and technical issues
  - Conducted weekly office hours for individualized support
- Software Developer** — Kha Esports *June–August 2025*
- Developed a dynamic website with support for participation in esports tournaments
  - Built a proprietary multiplayer ludo game with bracketed tournament support for 64 players
  - Tools used: Python, FastAPI, MERN stack, Nginx

## Technologies

**Languages:** Python, Java, OCaml, HTML, C, Shell Scripting, Rust, SQL, Haskell  
**Tools:** L<sup>A</sup>T<sub>E</sub>X, Vim, Emacs, JavaFX, JUnit, TensorFlow, NumPy  
**Systems:** UNIX, Windows

## Projects

- SubHunt** *[Github](#)*
- Audio-based PvE video game designed for blind players
  - Developed for “Games for Blind Gamers 4” game jam using Godot Engine and GDScript
  - Led game design and development
- Music-Generating LSTM** *[Github](#)*
- IBDP Extended Essay research project on AI music generation in Bach’s style
  - Achieved Grade A using Python, LSTM neural networks, TensorFlow, and NumPy
- codeDP** *[Github](#)*
- Desktop code editor for IB Computer Science pseudocode using Python and QT6

## Relevant Coursework

- **Intro to Computer Science 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** (In progress)
- **Data Structures and Algorithms** (In progress)

## Activities

- **The Gettysburgian (Campus Newspaper)** — Writer (2024–) *[Articles](#)*
- **The Gettysburg Cinematics** — Senate Representative (2025–)
- **Quizbowl Club** — Participant (2024–)
- **ACM Club** — Executive Officer and Webmaster (2025–)
- **ACM Leetcode Sessions** — Participant (2024–)