

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^AT_EX, 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 (2024–)
- **ACM Club** — Executive Officer and Webmaster and Leetcode Session Participant (2025–)
- **ACM Club** — Leetcode Session Participant (2024–)
- **Amnesty International Club** — Treasurer (2025–)