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, HTML, OCaml, C, Shell Scripting, Rust, SQL, Haskell
Tools: Linux, BSDs, Windows, LaTeX, JUnit, NumPy, Sage, JavaFX, Vim

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 (2025-)
- **ACM Club** — Leetcode Session Participant (2024-)
- **Amnesty International Club** — Treasurer (2025-)
- **Painted Turtle Farm** — Volunteer (2024-)
- **Quiz Bowl Club** — Senate Representative (2025-)