

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 — CS I and II Jan 2025–
• Tutored approximately 30 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 Jun–Aug 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: Python, FastAPI, MERN stack, Nginx

Technologies

Languages: Python, Java, HTML, C/C++, OCaml, Rust, Shell, SQL, Haskell
Tools: Linux, BSDs, Windows, LaTeX, JUnit, NumPy, Sage, JavaFX, Vim

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](#)
• Research on AI music generation in Bach's style
• Achieved Grade 'A' using Python, LSTM-RNNs, TensorFlow, and NumPy

codeDP — Desktop code editor for IB pseudocode [GitHub](#)
• Built using Python and QT6

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 (In progress)**
- **Data Structures and Algorithms (In progress)**

Extra and Co-Curricular Activities

- The Gettysburgian — 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–)