

# Anaya Koirala

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## Education

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

## Professional Experience

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- Peer Learning Assistant** — CS I and II 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 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 used: Python, FastAPI, MERN stack, Nginx

## Technologies

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**Languages:** Python, Java, HTML, OCaml, C, Shell Scripting, Rust, SQL, Haskell

**Tools:** Linux, BSDs, Windows, L<sup>A</sup>T<sub>E</sub>X, JUnit, NumPy, Sage, JavaFX, Vim

## Projects

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- 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 neural networks, TensorFlow, and NumPy
- codeDP** — Desktop code editor for IB pseudocode [GitHub](#)
- Built using Python and QT6

## Relevant Coursework

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- 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)

## Activities

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- 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–)