Anaya Koirala

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Education

Gettysburg College — BS Computer Science, BA Philosophy   May 2028
- **GPA:** 3.74

Professional Experience

Teaching Assistant for CS I and II — Computer Science Department, Gettysburg College   Jan 2025–Present
- Supported approx. 30 students on core programming concepts, OOP, GUI, Data Structures
- Provided assistance with debugging, coursework, and technical issues
- Conducted weekly office hours for individualized support

Software Developer — Kha Esports, Kathmandu, Nepal   Jun 2025–Aug 2025
- Developed a website for hosting, managing, and participating in e-sports tournaments
- Built a multiplayer ludo game with bracketed support for 64 players
- Tools Used: FastAPI, MongoDB, React.js, Express.js, nginx

Technologies

Languages: Python, Java, HTML, 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   Jan 2025– Present
- **The Gettysburg Cinematics** — Senate Representative   Sept 2025 – Present
- **ACM Club** — Executive Officer and Webmaster   Oct 2025 – Present
- **ACM Club** — Leetcode Session Participant   Nov 2024 – Present
- **Amnesty International Club** — Treasurer   Sept 2025 – Present
- **Painted Turtle Farm** — Volunteer   Aug 2024 – Present
- **Quiz Bowl Club** — Senate Representative   Apr 2024 – Present

Awards

- **Dean's List** — Gettysburg College   Mar 2024
- **Andrew Marsh Memorial Award** — Gettysburg College   Oct 2025