

Anaya Koirala

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Education

Gettysburg College – BS Computer Science, BA Philosophy
GPA: 3.83

May 2028

Professional Experience

Software Tutor - Mathematics Department, Gettysburg College	Jan 2026–Present
<ul style="list-style-type: none">Support students in any quantitative course across the curriculum.Focus on Python, LaTeX, R and any other statistical software.	
Teaching Assistant for CS I and II – Computer Science Department, Gettysburg College	Jan 2025–Dec 2025
<ul style="list-style-type: none">Supported approx. 30 students on core programming concepts, OOP, GUI, Data StructuresProvided assistance with debugging, coursework, and technical issuesConducted weekly office hours for individualized support	
Software Developer – Kha Esports, Kathmandu, Nepal	Jun 2025–Aug 2025
<ul style="list-style-type: none">Developed a website for hosting, managing, and participating in e-sports tournamentsBuilt a multiplayer ludo game with bracketed support for 64 playersTools Used: FastAPI, MongoDB, React.js, Express.js, nginx	

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:** Applications in compression, data analytics, Markov chains, IFS
- Data Structures and Algorithms**
- Computer Organization and Assembly (Spring 2026)**
- Computer Networks (Spring 2026)**

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
<ul style="list-style-type: none">Developed for Games for Blind Gamers 4 game jam using Godot Engine and GDScriptLed game design and development	
Music-Generating LSTM – IBDP Extended Essay project	GitHub
<ul style="list-style-type: none">Research on AI music generation in Bach's styleAchieved Grade 'A' using Python, LSTM-RNNs, TensorFlow, and NumPy	
codeDP – Desktop code editor for IB pseudocode	GitHub
<ul style="list-style-type: none">Built using Python and QT6	

Extra and Co-Curricular Activities

The Gettysburgian – Writer	Jan 2025– Present
The Gettysburg Cinematics – Senate Representative	Sept 2025 – Present
Quiz Bowl Club – Senate Representative	Apr 2024 – Present
ACM Club – Executive Officer and Webmaster	Oct 2025 – Present
Amnesty International Club – Treasurer	Sept 2025 – Present

Awards

Dean's List – Gettysburg College	Mar 2024
Andrew Marsh Memorial Award – Gettysburg College	Oct 2025