

# Anaya Koirala

[koiran01@gettysburg.edu](mailto:koiran01@gettysburg.edu) | [github.com/Anaya-Koirala](https://github.com/Anaya-Koirala) | [koirala.xyz](http://koirala.xyz) | +1 (425) 757-6637

## Education

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**Gettysburg College** – BS Computer Science, BA Philosophy  
GPA: 3.77

May 2028

## Professional Experience

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<b>Software Tutor<sup>1</sup></b> - Mathematics Department, Gettysburg College	Jan 2026–Present
<ul style="list-style-type: none"><li>Support students in any quantitative course across the curriculum.</li><li>Focus on Python, LaTeX and statistical softwares.</li></ul>	
<b>Teaching Assistant for CS I and II</b> – Computer Science Department, Gettysburg College	Jan 2025–Dec 2025
<ul style="list-style-type: none"><li>Supported approx. 30 students on core programming concepts, OOP, GUI, Data Structures</li><li>Provided assistance with debugging, coursework, and technical issues</li><li>Conducted weekly office hours for individualized support</li></ul>	
<b>Software Developer</b> – Kha Esports, Kathmandu, Nepal	Jun 2025–Aug 2025
<ul style="list-style-type: none"><li>Developed a website for hosting, managing, and participating in e-sports tournaments</li><li>Built a multiplayer ludo game with bracketed support for 64 players</li><li>Tools Used: FastAPI, MongoDB, React.js, Express.js, nginx</li></ul>	

## 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:** Applications in compression, data analytics, Markov chains, IFS
- Data Structures and Algorithms**
- Artificial Intelligence (Spring 2026)**

## Technologies

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**Languages:** Python, Java, Rust, OCaml, F#, Shell, SQL, Haskell

**Tools:** Linux, BSDs, Windows, LaTeX, JUnit, NumPy, Sage, JavaFX

## Projects

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<b>SubHunt</b> – Audio-based PvE video game for blind players	<a href="#">GitHub</a>
<ul style="list-style-type: none"><li>Developed for <a href="#">Games for Blind Gamers 4</a> game jam using Godot Engine and GDScript</li><li>Led game design and development</li></ul>	
<b>Music-Generating LSTM</b> – IBDP Extended Essay project	<a href="#">GitHub</a>
<ul style="list-style-type: none"><li>Self-directed highschool research project in AI generated music emulating certain musical styles.</li><li>Achieved Grade ‘A’ using Python, LSTM-RNNs, TensorFlow, and NumPy</li></ul>	
<b>codeDP</b> – Desktop code editor for IB pseudocode	<a href="#">GitHub</a>
<ul style="list-style-type: none"><li>Built using Python and QT6</li></ul>	

## Extra and Co-Curricular Activities

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

## Awards

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<b>Andrew Marsh Memorial Award</b> – Gettysburg College	Oct 2025
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<sup>1</sup>Note: This job will start from Jan 26th onward