

Jun Seo

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Education

Hamilton College – Clinton, NY

BA in Computer Science; Minor in Physics

Expected May 2027

QuestBridge National College Match Scholar (4-year full-tuition scholarship)

Dec 2022

Study Abroad Spring Semester at Yonsei University – Seoul, South Korea

Feb – Jun 2026

Relevant Coursework

- CS: Computer Organization (Game Boy ASM), Operating Systems (C, RISC-V ASM), Algorithms & Data Structures (C++), Principles of Programming Languages (Ruby, Clojure, Haskell, Prolog), Design Principles (C++)
- Math & Physics: Multivariable Calculus, Linear Algebra, Waves & Fields, Quantum Physics

Eastern Christian High School – North Haledon, NJ

Jun 2023

Experience

Hamilton Robotics Club – Hamilton College

Founding Member & Secretary (Fusion 360, C++)

Jan 2024 – Present

- Helped start the club and co-lead the mechanics team at biweekly meetings, building 4 robots for VEX U competitions
- Teach building techniques to club members, including students with no prior robotics experience
- Planned and led a CAD workshop, teaching 5 students to design robot parts in Autodesk Fusion 360

Hamilton College – Clinton, NY

Computer Science Teaching Assistant (GB ASM)

Fall 2025, Fall 2026 – Present

- Assist 9 students in weekly Computer Organization lab sessions with debugging, code review, and conceptual questions (Professor Dong)
- Host weekly office hours for 5 CS courses, explaining concepts one-on-one to students
- Created tools and assignments for Professor Strash's Computer Organization course (Fall 2025)

Physics Grader, PHYS 190

Fall 2025, Fall 2026 – Present

- Grade weekly problem sets for 30+ students in introductory physics

Undergraduate Research Assistant (Python, Bash, Linux)

May – Dec 2025

- Configured an SDR and Raspberry Pi (Ubuntu Linux) with GNU Radio to transmit and receive isolated radio signals
- Developed and tested automated Python and Bash programs to collect data alongside ground-truth measurements
- Processed radio spectrogram data and created graphs for Professor Doke's research paper
- Presented research poster at the NY6 Undergraduate Research Conference at St. Lawrence University (Nov 2025)

Projects

Game Boy Platformer Game – *Leap o' Fate* (GB ASM)

Oct – Dec 2024

- Built a fully playable retro-style platformer from scratch in Game Boy assembly with a classmate (@panpov), without a game engine
- Designed and iteratively optimized game logic, movement, and collision detection
- Published online for public playthroughs via a custom-built GitHub page: jun0032.github.io

2nd Place at GateHacks '24 – Colgate University (Python)

Sep 2024

- Built a real-time, multi-language Discord bot (bit.ly/TranslateBot) using the Gemini API with 3 teammates in 24 hours
- Delivered the project pitch to judges, contributing to the 2nd place finish

Skills

Programming: Python, C++, C, Game Boy & RISC-V Assembly, Bash, Ruby, Clojure, Haskell, Prolog

Design & Fabrication: Autodesk Fusion 360 (CAD), VEX robot design and building

Hardware & Electronics: Raspberry Pi, Software-Defined Radio (SDR)

Tools & Platforms: Linux (Ubuntu & Fedora), Git, GNU Radio, MS Excel, LaTeX

Languages: Korean (limited working proficiency)

Additional Experience

Web Editor, *The Spectator*

Jan 2024 – Dec 2025

- Maintained the website and uploaded weekly articles via SNO Dashboard for Hamilton's student newspaper
- Helped grow online readership for the college's main student-run newspaper

Leadership: VP of Society of Physics Students, Committee Chair of Hamilton Christian Fellowship