

Avigya Paudel

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SKILLS

Programming Languages: Python, C, C++, Java, Javascript

Other Technical Skills: HTML, CSS, Github, Wordpress, Data Structures, Algorithms, SQL, Flask,

Soft skills: Communication, Critical Thinking, Adaptability, Problem Solving, Attention to Detail

Languages: English(Highly Proficient), Nepali(Native), Hindi(Proficient), German(Basics)

EDUCATION

Union College | Schenectady, NY

September 2024 - June 2028

Bachelor of Science in Computer Science and Mathematics

- **Honors:** Union Scholar | Provided to 10%
- **Relevant Coursework:** Honors Multivariable Calculus, Can Computers Think(Credits), Exploring Engineering
- **Activities:** Robotics Club, ACM-W, Badminton Club, South Asian Students Union

Budhanilkantha School | Kathmandu, Nepal

June 2021 - June 2023

- **GPA:** 4.0
- **Honors:** Principal's Merit List | Computer Science School Topper
- **Relevant Coursework:** GCE A-Levels | Computer Science (A) Mathematics (A) Physics (A) Chemistry (A)

Harvard University | Harvard Summer School

Jun-August 2024

- **Relevant Coursework:** CS50: Introduction to Computer Science
- Gained skills in algorithms, data structures, programming with C and Python, Web Development, SQL and Flask.

RELEVANT EXPERIENCE

Computer Science Research Assistant | Union College

September 2024- Present

- Working in developing faster algorithms to find the product of two matrices with Professor Matt Anderson and a team of 6 student researchers in C++.
- Applying group theory and SUPs(Strong Uniquely Solvable Puzzles)to optimize matrix multiplication algorithms.

Automatic Pill Dispenser | Mobile App & Arduino Programmer | Union College

Fall 2024

- Built an Automatic Pill dispenser(targeting blind people), which dispenses pills using a rotating disk mechanism with a team of 4 students.
- Used C++ to document and integrate two servos, two sound alarms, and a button for the dispenser in arduino.
- Developed an integrated IOS app which notifies when the pills are dispensed using React Native and Firebase.

Remote Intern | *Nobel Navigators*

Aug 2023 - Nov 2023

- Gained experience on Pitch and Presentation, Internet Troubleshooting, and Web Development by learning and presenting to 50 members in EXPO.
- Developed a website using WordPress, featuring the AI revolution and presented websites to 65 members at expo.
- Led training sessions for 10 interns on leadership and web development practices with a co-facilitator.

EXTRACURRICULARS

President | Chess Club | Budhanilkantha School

Mar 2022 – Mar 2023

- Provided chess training sessions to students of grade (5-10) with 3 board members.
- Organized 2 inter-school events with 120+ participants in Chess Week and 1 intra-school event with 85 participants chess competitions in the National Math League, 2022.

A Levels Computer Science Tutor | *Self established paid tutoring*

Sept 2023 – Aug 2024

- Taught A-Levels Computer Science and Mathematics to three students separately.
- Crafted a step-by-step individualized course, focusing on conceptual skills and foundational understanding.
- Improved internal examination grades from 60% to 75% on average.

VOLUNTEERING

Organizer/Volunteer | My Body is My Body(MBIMB) | Nepal

Jul 2024- Aug 2024

- Led and coordinated body safety education programs for 1063 students in grades 6 and 7 across 17 schools.
- Facilitated interactive sessions that included songs, dances, and activities to teach children about body safety, personal boundaries, and how to respond to child violence and sexual abuse.