Aayush K. Singh

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SKILLS

Programming Languages: Python, Java, C, C++
Tools: GitHub, Git, NetBeans, WordPress, Outlook, Slack, Linux Terminal
Web Programming Concepts: HTML, CSS, JavaScript, Bootstrap

EDUCATION

Youngstown State University (YSU), Youngstown, Ohio
College of Science, Technology, Engineering & Mathematics (STEM)
Bachelor of Science in Computer Science and Mathematics   *Anticipated Graduation: May 2026*

RELEVANT COURSEWORK AND CERTIFICATES

- **Programming and Problem Solving** (CSIS 2610)
- **Honors Accelerated Calculus I** (MATH 1585H)
- **Mathematics for Computer Science (**Free course from MIT Courseware)
- **Data Structures and Objects (**Free course from FreeCodeCamp.org)

RELEVENT PROJECTS

Personal Website
- Developed my personal portfolio using HTML, CSS, and Bootstrap, and JavaScript.
- Published the web page using Github pages.

Poker Hands
- Developed Poker Hands project using C++ for coursework for CSIS2610

Stern-Brocot Approximation
- Implemented Farey/Stern-Brocot Approximation algorithm that approximates into real number
- Used C++ to implement the algorithm, as a coursework for CSIS2610

RSA Algorithm
- Implemented RSA algorithm for encryption and decryption using public and private key.
- Used C++ to implement this algorithm

WORK EXPERIENCE

Instructor at Sesame International School, Nepal
- Taught geometry, trigonometry, and physics to eight and night graders
- Coached female students in school as Peer Tutor, to encourage women involvement in STEM

Timeline Tech Tutor
- Taught basic computer skills and programming languages such as C++ to people new in technology.
- Provided bootcamps and other free resources to help students learn programming.

HONORS AND AWARDS

- **Academic Excellence Award,** YSU International Programs Office
- **Honors Award,** YSU Honors College

LEADERSHIP ACCOMPLISHMENTS

- Co-Founder, Mathematics Club
- Vice-captain at High School Cricket Team
- Member, Rotary Club
- YSU Honors Scholar Award
- YSU International Scholar Award