

## Aayush K. Singh

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## SKILLS

**Programming Languages:** Python, Java, C, C++, React, C#

**Tools:** GitHub, Git, NetBeans, WordPress, Outlook, Slack, Linux Terminal, Unity

**Web Programming Concepts:** HTML, CSS, JavaScript, Bootstrap, Node

## 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

- **Abstract Algebra** (MATH 3721)
- **Data Structures and Objects** (Free course from FreeCodeCamp.org)
- **Data Structures and Algorithms** (CSCI 5870)
- **Game Programming** (CSIS 3737)
- **Mathematics for Computer Science** (Free course from MIT Courseware)

## RELEVANT 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

### Web Developer AT YSU

- Led front-end development efforts using Drupal, HTML, CSS, and JavaScript to create visually appealing and responsive websites for YSU pages, enhancing user experience and engagement.

### 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
- **Dean's List**, YSU

## LEADERSHIP ACCOMPLISHMENTS

- **Co-Founder**, Mathematics Club
- **Member**, YSU COMPETITIVE PROGRAMMING CHALLENGE