



## Sarwagya Singh

- 📍 **Home** : Stuttgarter Strasse 68/1, 71638, Ludwigsburg, Germany
- ✉ **Email**: [sarwagyasingh69@gmail.com](mailto:sarwagyasingh69@gmail.com) 🏠 **Phone**: (+49) 15210614490
- 🌐 **Website**: <https://0xsarwagya.codes/>
- 📞 **WhatsApp Messenger**: 15210614490
- 🌐 **LinkedIn**: <https://www.linkedin.com/in/0xsarwagya>

**Gender**: Male **Date of birth**: 05/07/2003 **Nationality**: Indian

### ABOUT ME

I'm currently studying Information Engineering at TU Munich's Heilbronn campus and have a strong interest in cybersecurity, Web3, and AI. I'm comfortable working with ReactJS, NextJS, Solidity, ExpressJS, React Native, and MySQL, and I'm fluent in English, Hindi, and German (B2 level).

I see cybersecurity as essential for building trust in our increasingly connected world, and I enjoy exploring ways to make systems more secure and reliable. I'm always looking to expand my skills and apply them to projects that solve real-world problems.

### WORK EXPERIENCE

[ 01/08/2024 – 31/10/2024 ]

#### Werkstudent

*SAP SE*

**City**: Sankt Ingbert | **Country**: Germany

Working student at SAP supporting the Industry Product Engineering department's COO with strategic initiatives like AI and Industry Foundation. Assisting in project management, business reporting, and operational improvements while gaining valuable industry experience in a collaborative environment.

[ 16/02/2024 – 15/05/2024 ]

#### Application Security Intern

*DB System*

**City**: Saarbruecken | **Country**: Germany

- Conducted security assessments on web applications and APIs, identifying vulnerabilities using tools like OWASP ZAP and Burp Suite.
- Developed security guidelines for software development teams, enhancing secure SDLC practices.
- Automated security testing within CI/CD pipelines, improving vulnerability detection and response.

[ 05/2023 – 03/2024 ]

#### Research Assistant

*Fraunhofer IZFP*

**City**: Saarbrücken | **Country**: Germany

1. Developed A Server wide system for storage of data for Training models with ease using DICONDE Data Format And NoSQL Database
2. Developed and implemented digital twin models for material and quality properties of components, utilizing advanced analytics, machine learning, and simulation tools.
3. Improved computer science skills through practical experience in data analysis, programming, and software development.
4. Contributed to cutting-edge research in nondestructive testing, working with a talented and dedicated team at Fraunhofer IZFP.

[ 01/08/2023 – 31/10/2023 ]

#### Summer Intern

## **CISCO**

**City:** Saarbruecken | **Country:** Germany

- Collaborated with a team to identify and address potential security threats.
- Gained hands-on experience in cybersecurity practices, vulnerability testing, and incident response.
- Emphasized the importance of teamwork in securing networks.

[ 07/2022 – 09/2022 ] **AWS Cloud Intern (Virtual)**

## **AICTE**

**City:** Delhi | **Country:** India

1. Participated in the AWS Cloud Virtual Internship with the All India Council for Technical Education (AICTE), gaining hands-on experience in utilizing the Amazon Web Services (AWS) cloud computing platform.
2. Developed a strong understanding of cloud computing concepts and tools, including practical knowledge of AWS services such as EC2, S3, and Lambda.
3. Completed tasks related to virtual private cloud setup, application deployment and management, and data security, demonstrating practical application of cloud computing in real-world scenarios.

[ 07/2020 – 01/2022 ] **Software Development Intern**

## **Resistance Esports**

**City:** Ahmedabad | **Country:** India

1. Contributed to website maintenance and development, including bug fixing and resolving backend issues, as a Development Intern at Resistance Esports.
2. Independently developed and deployed web applications and Discord bots, gaining hands-on experience in project management and enhancing skills in web and Discord development.
3. Acquired industry experience and expertise in various technologies, while actively ensuring the security of the Discord server and website, during a challenging and rewarding internship at Resistance Esports.

[ 02/2021 – 03/2022 ] **Web development Intern**

## **Esports federation of India**

**City:** Delhi | **Country:** India

1. Assisted in website maintenance and improvement, including bug fixing and resolving backend issues, as a Web Development Intern at Esports Federation of India.
2. Collaborated with a team of five developers to develop and deploy web applications, gaining practical experience in teamwork and project management.
3. Acquired industry experience and expanded knowledge of various web development technologies, while honing skills in web development through a challenging and rewarding internship.

## **EDUCATION AND TRAINING**

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[ 01/10/2024 – Current ] **Bachelors Degree - Information Engineering**

**Technical University Of Munich (Campus Heilbronn)** <https://tum.de/>

**City:** Heilbronn | **Country:** Germany |

[ 03/2023 – Current ] **Bachelors Plus Mint**

**Universität des Saarlandes** <https://www.uni-saarland.de/>

**City:** Saarbrücken | **Country:** Germany |

[ 06/2022 – 08/2022 ] **German Language - B2 Certificate**

**Heimvolkhochschule Mariaspring** <https://www.mariaspring.de/sprachenzentrum/>

**City:** Clausthal-Zellerfeld | **Country:** Germany | | **Final grade:** 1,2

[ 05/2019 – 07/2021 ] **All India Senior Secondary School Examination**

**Indraprastha International School** <https://indraprasthamuzaffarpur.com/>

**City:** Muzaffarpur | **Country:** India | | **Final grade:** 96% - (1,1 - German Grade)

[ 04/2015 – 05/2019 ] **All India Secondary School Examination**

## PROJECTS

### Scramblify

A CLI that encrypts and decrypts png, jpg, jpeg images to a gibberish image and provides you the key to unlock it later so that you have the complete control of your images.

Link: <https://0xsarwagya.github.io/scramblify/>

### CVSSify

An open-source Typescript library designed to simplify the process of calculating Common Vulnerability Scoring System (CVSS) 3.0 scores

Link: <https://www.npmjs.com/package/cvssify>

### Sniffa

A lightweight packet sniffer built with TypeScript to capture and analyze network traffic in real time.

Link: <https://github.com/0xsarwagya/sniffa>

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## VOLUNTEERING

### Awareness Volunteer Muzaffarpur

1. Volunteered as an Awareness Volunteer at the Indian Red Cross Society (IRCS) from January 2020 to April 2022, contributing to various initiatives and campaigns.
2. Raised awareness on important humanitarian issues, actively promoting the mission and values of the Indian Red Cross Society.
3. Engaged in community outreach activities, organizing events, workshops, and educational programs to educate and empower individuals regarding health, safety, and emergency response.

[ 03/2023 – Current ] **Volunteer** Germany

1. Actively volunteering at Bihar Fraternity, an organization dedicated to preserving and promoting the cultural heritage of Bihar.
  2. Engaging in various activities and initiatives to foster unity among Biharis worldwide, while keeping their traditions, language, and culture alive.
  3. Contributing to the positive momentum of Bihar Fraternity by actively participating in community outreach programs and events.
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## NETWORKS AND MEMBERSHIPS

[ 01/08/2023 – Current ] **Google developer Students Club - Saarland University** Saarbrücken

- Planned and organized workshops, seminars, coding challenges, and hackathons, facilitating hands-on learning experiences for members.
- Collaborated with team members on tech projects, gaining practical experience in web and app development, and data analysis.
- Networked with professionals and peers to stay updated on industry trends and best practices.

Link: <https://gdsc.community.dev/saarland-university-saarbrucken-germany/>

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## LANGUAGE SKILLS

**Mother tongue(s):** Hindi , Maithili

**Other language(s):**

**English**

**LISTENING C2 READING C2 WRITING C2**

**SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1**

## German

**LISTENING B2 READING B2 WRITING B2**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## DIGITAL SKILLS

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### My Digital Skills

#### Frontend development

ReactJS | NextJS | Typescript | Bootstrap | UI5 | HTML | Tailwindcss | Javascript | CSS

#### Mobile Development

React Native | Flutter | Expo

#### Backend Development

Spring Boot | Java | C | SQL | NodeJS | Python | Firebase | Docker | MongoDB | Postman | TrackJS

#### Security

Vulnerability testing | Network Security Risk Analysis

#### Extras

Matplotlib | Numpy | ABAP (SAP) | Scikit | BrainJS | Solidity | Blockchain development | Git | PostgreSQL and MariaDB