Tathagata Roy

 Github   LinkedIn   tathagata.roy1278@gmail.com

EDUCATION

- **Indian Institute of Information Technology, Kalyani** — 2020 - 2024
  Bachelor of Technology in Computer Science and Engineering — *GPA: 9.28*
- **Garden High School, Kolkata** — 2008 - 2018
  Matriculation — *94.6%*
- **Garden High School, Kolkata** — 2018 - 2020
  10 + 2 — *91.75%*

EXPERIENCE

- **DigitalAlly** | *Remote Internship* — September 2021 - December 2021
  Worked with libraries such as axe, equal-access and pally to create applications for testing website accessibility.

- **INRIA** | *Remote Internship under Dr Julia Lawall* — May 2022 - July 2022
  Extended SmPL in Coccinelle with C++ constructs, mainly new and enum.

- **INRIA** | *On-site Internship in Paris under Dr Julia Lawall* — Dec 2022 | June 2023 - July 2023
  Worked on CoccinelleForRust which extends SmPL for the Rust programming language.

- **AEL Data Services** | *Remote SDE* — August 2023 - November 2023
  Built an MVP designed to comprehensively analyze entire websites for potential accessibility violations.

- **INRIA** | *On-site Internship in Paris under Dr Julia Lawall* — December 2023 - February 2024
  Implementing the Computational Tree Logic Engine and Scripting for CoccinelleForRust. This internship is still in progress.

PROJECTS

- **Coccinelle** | *Ocaml, C++* — 2022
  It is a program matching and transformation engine which provides the language SmPL (Semantic Patch Language) for specifying desired matches and transformations in C code. My work involved extending SmPL for the 'new' and 'enum' C++ constructs.

- **CoccinelleForRust** | *Rust* — December 2022 – Present
  A project which aims at extending functionalities of Coccinelle to the Rust programming language. (Project Maintainer) | Repository | LPC 2023 | Kangrejos 2023

- **Tublets** | *Javascript* — September 2021 - December 2021
  Tublets aid developers, testers, and designers in viewing accessibility information on web pages.

- **Accessibility Colour Contrastor** | *Javascript* — September 2021 - December 2021
  Accessibility and colour verifier to aid users and developers to make more inclusive websites.

ACCOMPLISHMENTS

- 1st Place in **Smart India Hackathon**(India's Largest Hackathon) 2022 Software Edition.
- Co-organized Winter of Code, Hacktoberfest, Pratiti 2022 and other events in IIIT Kalyani Gymkhana.
- Selected for **Indian National Olympiad of Informatics (INOI)** 2020 by qualifying **ZCO 2020** and **ZIO 2020**
- Secured Second position in interschool Competitive Coding competition **Logique 2020**, held at DPS Ruby Park
- Semi-finalist in **National Karate Championship** (Kyukoshin, Shinkyokushinkai) Karate Point India under the guidance of Shihan Shivaji Ganguly

REFERENCES

- Bhaskar Biswas Assistant Professor, Indian Institute of Information Technology(IIIT) Kalyani
- Julia Lawall Research Director at National Institute for Research in Digital Science and Technology(INRIA), France
- Eleni Boursinou OER Project Specialist, UNESCO