

# Joydip Das

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## Education

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**Shahjalal University Of Science and Technology**      January 2018 – February 2023  
*BSc(Engg) in Computer Science and Engineering*      CGPA : 3.55/4.00

## Research Experience

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**A Study of Analysing and Modelling Attacks on Blockchain Systems in a Layer-based Approach**      2022 - 2023  
[Archive Link](#) / Publication Pending

**Supervisor:** Dr. Md Sadek Ferdous, Associate Professor, Department of CSE, BRAC  
Dr. Md Forhad Rabbi, Professor (SMIEEE) , Department of CSE, SUST

- Analyzed 23 blockchain attacks using a novel framework to assess inter-layer implications, attack incentives, and mitigation strategies. Provided systematic insights into attack vectors and countermeasures to strengthen blockchain security.

■ **Simulation and Risk Prediction analysis of Blockchain Attacks using Simblock**      2023 - 2024  
/ Writing in Progress

**Supervisor:** Dr. Md Forhad Rabbi, Professor (SMIEEE) , Department of CSE, SUST  
Dr. Md Sadek Ferdous, Associate Professor, Department of CSE, BRAC

- Simulated blockchain attacks using SimBlock, testing scenarios with varied node counts, hashpower, adversary nodes, and block configurations.
- Conducted a comprehensive analysis of attack correlations and provided actionable recommendations to enhance blockchain security without using real-world mining resources.

## Professional Experience

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**Software Engineer**      August 2023 – June 2024  
*ReliSource Technologies Ltd.*      Bangladesh

- Collaborated with a 10-person team on high-impact equipment financing projects, managing \$1M+ in loan data. Developed Salesforce CRM backend with Apex and front-end interfaces with AngularJS and Visualforce, delivering quality solutions across production cycles.

**Associate Software Engineer**      July 2024 – Present  
*All Generation Tech*      USA (remote)

- Designed workflows and optimized data integrations with Unqork for Fortune 500 clients. Collaborating with a 20+ engineer team, building custom interfaces and enhancing existing solutions for top-tier companies.

## Extracurriculars, Awards & Scholarships

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- **Govt. Merit Scholarship** for Excellence in Public Examination - 2013, 2015, 2017 from Ministry of Education, Bangladesh.
  - **5th** place in Intra-SUST Competitive Programming, 2021.
  - Competed in **300+** online contests on virtual judges like Codeforces, CodeChef, and AtCoder.
  - Participated in **Bangladesh Blockchain Olympiad 2023**: Developed a decentralized wallet for secure transactions on a maintainable ledger.
  - **1000+ problem** solves around different online judges demonstrating my steadfastness and determination. [Archive link](#).

- Runners up, **Leading University Hackathon 2019** – Developed a social app for effective teacher-student interaction with features like book lending and library management.
- National Physics Olympiad Participant, 2018.
- Trained 10+ high school students in C++ programming language and analytical problem solving.
- Active executive member of SUST Bicycle and fitness club (2018-2020).

### Certifications

- **AWS Cloud Foundation: Training and Certification - 2023** [↗](#)
- **HackerRank Problem Solving** [↗](#)      ● **HackerRank SQL** [↗](#)      ● **HackerRank Python** [↗](#)
- **The Unix Workbench** [↗](#)

### Open Source Contributions

- **Prisma-multischema** [↗](#) - developed and released a npm package which allows writing several schema files in an organized manner without restrictions. Total 70000+ downloads [📊](#).

### IELTS Results : [↗ ETRF PDF](#)

Overall	Speaking	Listening	Reading	Writing
8.0	8.5	8.5	7.0	7.0

### Specialized Skills

**Programming Languages:** C++ (proficient), Javascript (proficient), Python (intermediate), Java (intermediate) , Apex, Matlab

**Framework & Libraries:** ReactJs, Scikit-learn, ExpressJs, NestJs

**Databases:** MySQL, Firebase, MongoDB

**Version Control:** Git, Bitbucket

**Tools, Applications & Presentation:** LaTeX, Google Colab, Android Studio (java), Canva, Vercel

### Projects

**SimPlot** | *ReactJs, ChartJs, HTML5, Canvas API* | [Code ↗](#)

- Visualize blockchain with customizable simulation parameters.
- Editable parameters includes simulation speed, block movement, and timestamp.

**Certified** | *GoLang, Hyperledger-fabric, Javascript* | [Code ↗](#)

- Blockchain-based certificate verification system.
- Organizations like Universities can register, upload student/employee data, store it on the blockchain, and query using student IDs to view certificates with detailed information including CGPA.

**Infinity-Commerce** | *Nodejs, expressJs, MongoDB* | [Code ↗](#)

- Digital marketplace with order tracking & inventory management
- 3-stage order tracking, 16 APIs, three back-ends, online payments, sales with card payment, and admin/client privileges.

**Gleam** | *ReactJs, MaterialUI, Nodejs, expressJs, MongoDB* | [Code ↗](#)

- Blogging platform to post tutorials, ideas, and interacting by comment, upvote/downvote.