

Swastik Biswas

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EDUCATION

Kalinga Institute of Industrial Technology

Bachelor of Technology in Computer Science and Engineering

- Current CGPA: 3.36 / 4.00

Bhubaneswar, Odisha

Aug. 2024 – Present

Delhi Public School Megacity

Science with PCM (ISC Examination)

- Grade: A (90.5%)

General Science & Mathematics (ICSE Examination)

- Grade: A (94.5%)

Kolkata, WB

June 2022 – May 2024

April 2020 – May 2022

CAREER OBJECTIVE

Detail-oriented Computer Science student with strong foundations in Java and Python. Seeking to leverage technical expertise in software engineering and data serialization to contribute to high-impact projects while developing scalable solutions within a professional development team.

PROJECTS

Toon Builder | *Python, Data Serialization*

[\[github.com/0xPolybit/toonbuilder\]](https://github.com/0xPolybit/toonbuilder)

- Engineered a Python library to convert JSON, XML, and YAML into TOON, optimizing data formats for Large Language Models.
- Focused on reducing token overhead and enhancing context-window efficiency for Python-based AI applications.
- Utilized advanced data serialization techniques to ensure high semantic integrity across different data structures.

Competitive Programming Ally | *Java, Java Swing, File I/O*

[\[github.com/0xPolybit/cp-ally-ide\]](https://github.com/0xPolybit/cp-ally-ide)

- Developed a specialized IDE for competitive programming that automates the process of fetching and testing sample test cases.
- Implemented a custom testing engine for real-time output comparison, significantly reducing debugging time during contests.
- Designed a streamlined user interface using Java Swing to minimize context switching and improve coding efficiency.

TECHNICAL STRENGTHS

Programming Languages: Java, Python, C#, JavaScript, TypeScript

Web Frameworks: React.js, Next.js, Vite.js

Modelling & Analysis: AutoCAD, TinaTI, KiCad

Software & Tools: Microsoft Office, LaTeX, Git, GitHub

CERTIFICATIONS

- **Model Context Protocol: Advanced Topics** – Anthropic
- **Software Engineering Job Simulation** – Forage & Hewlett Packard Enterprises
- **GenAI Powered Data Analytics Job Simulation** – Forage & Tata Technologies