Samarth Ryan Edward

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CAREER OBJECTIVE

Aspiring Software Engineer currently pursuing B. Tech. in Computer Science with a strong foundation in DSA, software design, and Unix/Linux environments. Passionate about **problem-solving, teamwork, and learning new technologies**, with the ability to adapt quickly and contribute effectively to real-world projects.

SRM Institute of Science and Technology, Kattankulathur

- Bachelor of Technology in Computer Science and Engineering
- Expected Graduation: 2028
- Relevant Coursework: Data Structures, Algorithms, Operating Systems, Database Systems, Computer Networks, Software Engineering.
- CGPA: 9.20 (Currently in third semester)

TECHNICAL SKILLS

- Languages proficient in:
  - Python
  - Java
  - C
  - C++
  - SQL
- Tools and Platforms:
  - Github
  - Leetcode
  - CodeForces
  - Linux
  - VS Code
  - Spyder
  - Code::Blocks
- Concepts:
  - OOP
  - DSA
  - Operating Systems

PROJECTS

- MusAIc – AI Mood-based Music Player

  - Built a real-time facial emotion recognition app (Python, OpenCV, Transformers) integrated with the Spotify API.

➢ Detects user mood via webcam and auto-generates matching playlists with a lightweight desktop UI (PyWebView).

- Endie (Encryption-Decryption Tool)
  ➢ Built a Java-based GUI tool for text encryption and decryption, improving UI design and debugging skills.

  Key Features:

  - Built a user-friendly GUI for encryption and decryption.
  - Implemented secure text transformation using Java.
  - Cross-platform compatibility with JDK 8+.

- Indian Roulette (Number Guessing Game)
  ➢ Developed a Python number-guessing game with difficulty levels and feedback loop, demonstrating logic building and problem-solving.

  Key Features:

  - Difficulty Levels: Allows player to choose from Easy (more guesses), Medium, or Hard (fewer guesses).
  - Feedback Loop: Provides immediate hints — "too high" or "too low" — after each guess.
  - Guess Tracking: Tracks the number of attempts made and gracefully ends when the player guesses correctly or runs out of guesses.

ONLINE COURSES

- Cybersecurity & Ethical Hacking (Udemy): Learned basics of penetration testing and secure coding.
- Java Programming (NPTEL): Strengthened understanding of OOP and Java fundamentals.

INTERESTS

- Coding
- Music: Play guitar and drums; also practice beatboxing.
- Languages: English, Hindi

REFERENCE

- Mrs. Soshya Joshi
  ➢ Assistant Professor at SRM Institute of Science and Technology, Kattankulathur
  ➢ Contact: 9884214614
  ➢ E-mail: soshyaj@srmist.edu.in