Shreyan Ghosh

Backend Developer | CSE Undergraduate

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SUMMARY

Backend-oriented Computer Science undergraduate with strong foundations in Java, Python, and systems programming. Experienced in building scalable backends, real-time applications, and ML-assisted pipelines. Demonstrated ability to design human-centered tools, optimize performance-critical systems, and ship production-grade projects. Comfortable across backend engineering, applied NLP, and developer-focused UX.

EDUCATION

Institute of Engineering and Management, Kolkata Jun 2023 – May 2027
B.Tech, Computer Science and Engineering

Delhi Public School, Megacity Apr 2023
Senior Secondary (ISC)

EXPERIENCE

Artificial Intelligence Trainee Jan 2024 – Feb 2024
Personifwy | Virtual

- Built and trained a TensorFlow-based text classifier on 50,000+ IMDb reviews, achieving 87% validation accuracy
- Applied NLP preprocessing pipelines including tokenization, vectorization, and sequence padding
- Improved baseline accuracy by 10% through hyperparameter tuning and model refinement

PROJECTS

Bionic Reading Chrome Extension ⦿ 2025
TypeScript, Chrome APIs

- Developed a production Chrome extension using DOM-safe text transformation to improve reading efficiency
- Implemented configurable controls including per-site toggles and intensity tuning with extension lifecycle safety
- Optimized content script execution to minimize layout reflows and preserve page performance

SpendSight: Transaction Classification Pipeline ⦿ 2024
Python, NLP, MiniLM

- Engineered a multi-stage NLP classification pipeline using regex rules, heuristics, and MiniLM models
- Reduced LLM dependency through local classification to improve throughput and cost efficiency
- Implemented batch processing, confidence scoring, and structured logging for auditability

Secure Data Wiping Utility for Linux ⦿ 2024
C, Linux, File Systems

- Developed a Linux-based utility for secure file and directory data wiping
- Implemented low-level file operations ensuring data irrecoverability across file systems
- Designed recursive deletion with permission-safe handling and system reliability

POSITIONS OF RESPONSIBILITY

Co-founder, DevGeeks Tech Community Jun 2025 – Present

- Co-founded and lead a tech community with 1,000+ active members on LinkedIn
- Organize peer mentorship, content sharing, and developer-focused events

TECHNICAL SKILLS

Languages: Java, Python, Go, TypeScript

Backend & Systems: TCP Sockets, Multithreading, REST APIs, JDBC, PostgreSQL

ML/NLP: TensorFlow, PyTorch, NLP Pipelines, MiniLM, Model Evaluation

Tools: Git, Chrome Extension APIs, Linux, Encryption,