Swapnil Dey
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Education

B.Tech in Information Technology	*2023–27*
Kalinga Institute of Industrial Technology, Bhubaneswar	CGPA: 8.5
All India Senior School Certificate (10+2)	*2021–23*
Aditya Birla Vani Bharati, Rishra	Percentage: 72

Personal Projects

Assistencia — *A website-based facial authentication system, implemented using Python .*
– Spearheaded the creation of Assistencia, an automated attendance system using Python and OpenCV, which was then rolled out to 100+ employees after successful beta testing.
– Integrated role-based dashboards for admins and users, enabling real-time attendance visualization and generating customized reports, improving workforce management efficiency by 60
– Tech: Python, Django, HTML, CSS, OpenCV, Bootstrap

InsightFlow — *Mobile-first AI tool for visualizing and analyzing user-uploaded datasets*
– Developed a Flutter-based mobile app integrated with Gemini AI, enabling 200+ users to upload CSV/Excel files and receive real-time, AI-generated insights—reducing manual data analysis effort by over 70%.
– Engineered a Firebase backend (Firestore, Auth, Storage) with NLP-based anomaly detection and interactive visualizations, improving data accessibility and decision-making for 200+ small business users.
– Tech: : Flutter, Firebase, Gemini Pro, Dart, Firebase Auth, Firebase Storage

Experience

General Intern
Metaborong Technologies Pvt Ltd, Kolkata — June 2025 – Present
– Facilitated cross-functional collaboration between tech and ops teams, enhancing documentation workflows and requirement traceability—leading to a 30% faster task turnaround.
– Collaborated with the development team to optimize web interfaces and reusable UI components using HTML, CSS, and JavaScript, resulting in a 30% improvement in page responsiveness across internal platforms.

Web Developer Intern
Creative Creature Company, Bhubaneswar — June 2025 - Present
– Built 5+ modular, mobile-responsive web pages that reduced design-to-deployment time by 42% through optimized HTML/CSS structuring and reusable JavaScript components.
– Integrated interactive UI elements that increased session duration by 28% across client landing pages, directly boosting early-stage conversion rates for two digital product campaigns.

Research Papers

• **"Post-Quantum Cryptography: Navigating Challenges and Shaping Secure Solutions"** " Co-authored a study on quantum threats to RSA, ECC, and Diffie-Hellman, analyzing NIST-standardized PQC algorithms like CRYSTALS-Kyber & SPHINCS+, and highlighting the urgency of quantum-resistant cryptography amid IBM's 1,000-qubit roadmap .

• **"Threat Intelligence and Offensive Security: A Critical Challenge in Asia and Southeast Asia"** Co-authored research on cybersecurity threats and quantum cryptography, focusing on the rise in cyberattacks (42% increase in 2022) and the projected $2 trillion cost of cybercrime by 2025.

Technical Skills

• **Languages:** Python, C++, JavaScript, SQL, HTML, CSS, Java, Dart
• **Frameworks:** Django, NodeJS, Scikit-learn, TensorFlow, Keras
• **App Development:** Flutter, FlutterFlow, Google Firebase (Auth, Firestore, Storage)
• **Tools:** Git, PostgreSQL, MySQL, SQLite, Power BI, Google Cloud Console, Docker, Kubernetes
• **Coursework:** DSA, OS, OOP, DBMS, Software Engineering
• **Areas of Interests:** Web Development, App Development, AI, DevOps

Achievements

• Solved 250+ LeetCode algorithm challenges (Max Rating: 1655), enhancing proficiency in DSA and competitive coding efficiency.
• Pentathon 2024 CTF- Top 2% teams Nationwide
• IIT Kanpur CTF (June 2024)- Ranked among Top 50 teams

Certifications

• Google Cloud Cybersecurity Expert (June 2024)
• Cisco Ethical Hacker (June 2024)
• The SecOps Group AppSec Practitioner (CAP
• AI/ML for Geodata Analysis by ISRO