Debagnik Kar

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Portfolio: debagnik.in

SUMMARY

Versatile and motivated Software Engineer with 3 years of experience in software development, testing, and data analysis across e-commerce and B2B domains. Strong background in electronics, IoT, and cloud platforms. Actively involved in research with a published paper on blockchain-based Internet Voting. Seeking to contribute to academic and research initiatives through technical rigor and innovative thinking.

EDUCATION

Kalinga Institute of Industrial Technology (KIIT) — **Bhubaneswar, OD, India**
Apr 2018 - Jun 2022
CGPA: 8.15/10

- Bachelor of Technology in Electronics and Telecommunication Engineering
- Published research: "Internet Voting using Dual Blockchain Architecture"
- Projects: IoT, Embedded Systems, Robotics

RELEVANT SKILLS

Programming:	Java, Python, NodeJS, MATLAB, SQL, Assembly
Web/Backend:	SAP Hybris, Spring Boot, ExpressJS, EJS, REST/SOAP APIs
Testing:	Selenium, JUnit
Cloud & DevOps:	AWS, Azure, GCP, Git, Linux
Tools & Platforms:	Jira, Wireshark, SQL Map, Nmap
Hardware & IoT:	Arduino, ESP32/8266, Intel 8085/86, CC3200
Other:	MS Office, MATLAB, Data Analysis, ETL, Cybersecurity
Languages:	English (Fluent), Hindi (Fluent), Bengali (Native), Japanese (Beginner)

EXPERIENCE

International Business Machines (IBM) India — **System Engineer**
Kolkata, WB, India
Feb 2023-Present
Backend Developer

- Developed and maintained backend components for a US-based B2B Biopharma e-commerce platform using SAP Commerce.
- Led data migration efforts from legacy systems, improving data consistency by 25%.
- Collaborated with cross-functional teams to design and implement new features.

Pune, MH, India
May 2022 – Feb 2023
Software Tester

- QA for a US-based electronics e-commerce client.
- Performed functional and regression testing for storefront flows during AWS migration.
- Validated API responses, data layers, and business logic across environments.
- Collaborated closely with devops teams to ensure stability during infrastructure changes.

Cognizant — **Programmer Analyst Trainee**
Bangalore, KA, India (Remote)
Dec 2021 – Mar 2022
Apperentiship

- Hired as a trainee engineer from Cognizant's Gen C programme for college graduates
- Was trained on Industrial Software Development Life cycles (Waterfall, Agile, Kanban) and Software Planning and management tools like Jira and Confluence
- Was groomed on corporate speaking and vocabulary with spoken English in mind
- Technical training included Databases (MySQL), ETL (Informatica) and Business intelligence tools (IBM Cognos) and data analysis

Digital Disrupt Singapore PTE LTD — **Data Science Intern**
Remote Work
Jan 2021 – Mar 21
Internship

- Built and deployed machine learning pipelines in Python.
- Gained hands-on experience with data preprocessing, model evaluation, and deployment.
- Studied advanced AI, data science workflows, and deep learning architectures.

PUBLICATIONS:

- Kar, D. Bania H, (2025), "*Internet Security in Daily Life: A Comprehensive Approach*". In *Interdisciplinary Research in Technology and Management*. CRC Press.
- Kar, D., & Kar, S. P. (2024). "*An I-Voting System Using Dual-Blockchain Architecture*". In *Interdisciplinary Research in Technology and Management* (pp. 213-222). CRC Press. DOI: 10.1201/9781003430469-25
- Kar, D & Chakraborty, S. (2021). "*Implementation of SQL Injection vulnerability on PHP websites using Google Dorking and SQLMap*". DOI: 10.13140/RG.2.2.24450.40647.