

Sudipta Banerjee

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SUMMARY

2 Years' experience Software Developer at IBM, hands-on JIRA, Confluence, 60% reduction in SDLC, leveraging Nexus, Git, Jenkins. Increased 30% isotherm analytical efficiency through Isotherm Android App. Contributed to 30% increase in user interactions through Trivia Android App, proficient in Web Development, executed three frontend (Book-Spot, Github Analytics Dashboard, Digital Portfolio), and DBMS (Women's FIFA World Cup 2023) projects.

EDUCATION

Illinois Institute of Technology, Chicago, IL

AUG 2025

Master of Computer Science, GPA: 3.5

Subjects: Software Engineering, Database Organization, Computer Networks, Algorithms, Big Data Technologies

SRM Institute of Science & Technology, Chennai, India

JUN 2020

Bachelor of Technology, ECE, GPA: 3.7

SKILLS

- **DESIGN:** Figma | Adobe Lightroom | Adobe Photoshop | UX Research | Wireframing | Prototyping | UX Design Sprints
- **PROGRAMMING:** Frontend (React, Javascript, HTML/CSS) | Python | Java | Databases (MYSQL) | Version control (Git, GitHub) | Docker | Jenkins | Bash
- **OTHER:** Postman | IBM API-Connect & DataPower | SDLC | JIRA | Confluence | Agile Systems

WORK EXPERIENCE

APPLICATION DEVELOPER

JUL 2021 – JUN 2023

IBM, Bangalore, India

- Decreased manual workload of IBM API-Connect V5 app creation by 80%: engineered, deployed Node.JS utility. Led 200% increase in request rates, increasing bank's YoY performance 100%.
- Implemented enhanced, compliant security protocols IBM APIC v10 Open API Swagger, integrated OAuth 2.0
- Deployed CI/CD pipeline, resulted 30% reduction in development lifecycle, leveraging Nexus, Git, Jenkins, showcasing efficacy, acceleration in software delivery.
- Triaged 65% blocked live API requests, deployed message signing certificates into Datapower, accoladed resolving Sev-1.

SOFTWARE DEVELOPER INTERN

NOV 2019 - MAR 2020

Defense Research Laboratory, Assam, India

- Achieved remarkable 30% increase in efficacy, leading integration of Langmuir, Freundlich Isotherm processes into Android app. Utilized Java 8, SQLite, and Android Studio, providing stakeholders with precise insights into water quality variations.
- Achieved substantial 59% improvement in predictive accuracy through implementation of Python-based Decision Tree Algorithm, complemented by enhanced user experience facilitated by intuitive Tkinter GUI for efficient algorithm testing

PROJECT EXPERIENCE

- **Portfolio (Wireframing, Figma, Javascript, HTML/CSS):** Developed my own portfolio to showcase my projects using Javascript, HTML & CSS, leveraged user feedback and applied UX design principles to increase user engagement & Visual Aesthetics.
- **Book-Spot (Angular 8, Spring Boot, MySQL, Docker):** Revitalized Book-Spot, a web application, facilitates seamless exploration, categorization, favoriting, active book discussions, enhancing user interaction & overall reading experience.
- **GitHub Analytics Dashboard (ReactJS, HTML, CSS, Docker):** Transformed GitHub analytics with a dynamic web-based Dashboard, enabling real-time monitoring of contributor activity, pull request trends, and universal deployability through seamless integration with the GitHub public API, leveraging Docker for efficient version control.
- **Women's FIFA World Cup 2023 Database System (Python3, MySQL, Tkinter):** Spearheaded the creation of an intuitive interface, centralizing Women's FIFA World Cup 2023 data in a MySQL database, optimizing tournament management with comprehensive insights into player profiles, team details, match information, goals, fixtures, and standings.

LEADERSHIP EXPERIENCE

- **Teaching Assistant (Cybrary, CA):** Led a dynamic cybersecurity team, publishing impactful blogs on DDoS prevention and orchestrating a successful virtual workshop to simulate AWS and Cybersecurity concepts.
- **Senator (SGA, IIT Chicago):** Elevated academic affairs as a Senator, implementing impactful student feedback mechanisms and fostering improved communication between students and faculty at IIT Chicago.