

DISHA BISWAS

Exeter, United Kingdom

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1. EDUCATION

University of Exeter

Master of Science in Advanced Computer Science

Sep 2024 – Sep 2025

Exeter, United Kingdom

- Major in Computer Science

- Relevant Coursework: Enterprise Computing, Software Engineering, Cloud Computing, Machine Learning, Data Science
- Current classification: Distinction

Netaji Subhash Engineering College

Bachelor of Technology in Computer Science Engineering

Sep 2020 – Jun 2024

Kolkata, West Bengal

- Major in Computer Science

- Relevant Coursework: DBMS, Operating Systems, Data Structures and Algorithms, OOPS
- CGPA: 9.29/10

2. SKILLS

Programming Languages: JavaScript, C, C++, Python

Frameworks: ExpressJS, FastAPI, ReactJS, Tailwind CSS

Database: MongoDB, SQL

Cloud: AWS (EC2, S3, IAM, Lambda, API Gateway, CodePipeline, CodeDeploy, CloudWatch, Elastic Beanstalk)

Others: DSA, DBMS, Operating Systems, Software Engineering, OOPs, Computer Networks

3. PROJECTS

Decision Support Tool for Cybersecurity Investment

Jun 2025

- MSc Research Project: Developing a web-based decision support tool that applies linear programming over probabilistic attack graphs to recommend cost-effective, resilience-aware cybersecurity control portfolios.
- Built a FastAPI backend using PuLP to solve multi-objective MILP models, achieving sub-2-minute solve times for scenarios with 30+ controls.
- Crafted a React frontend with interactive Plotly visualisations (Pareto frontiers, budget allocations) to make recommendations transparent for non-expert users.
- Integrated MongoDB for scenario storage and comparison, and added an explanation module that breaks down each control's cost-effectiveness ratio.
- Implemented deployment workflows using AWS EC2, CodePipeline, CodeDeploy, and Elastic Beanstalk, gaining hands-on experience with CI/CD automation, environment provisioning, and cloud-based application delivery.

Personal Portfolio Website

Nov 2025

- Designed and developed a fully responsive personal portfolio website to showcase projects, technical skills, and experience with a modern, clean UI.
- Built with React and Tailwind CSS, optimising components for speed and smooth transitions.
- Implemented reusable components, routing, and accessibility-friendly design patterns to improve user experience.
- Deployed on Vercel using GitHub workflow integration, demonstrating experience with cloud hosting and automated frontend deployments.

4. CERTIFICATIONS

AWS Certified Developer – Associate (DVA-C02)

Nov 2025

- Credential ID: 473ef46f-5436-4413-b1a9-ffd683f7a88b
- Issued by AWS (verified via Credly).

5. ACTIVITIES

Teaching Assistant @Rangmashal Foundation

Feb 2023 - Sept 2023

- Co-instructed a computer course for 30+ underprivileged students, empowering them with essential digital skills.

Backend Developer @Hack4Bengal

Jul 2023

- Engineered a web app using the MERN stack to connect users with household helpers.
- Developed REST APIs and integrated JWT authentication.

SIH'2022 Finalist

Aug 2022

- Contributed to an educational app enabling teachers to track student performance.