

DISHA BISWAS

Exeter, United Kingdom

+44 7587678538 bidisha2125@gmail.com LinkedIn GitHub Personal Website

1. EDUCATION

University of Exeter

Sep 2024 – Sep 2025

Master of Science in Advanced Computer Science

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

Sep 2020 – Jun 2024

Bachelor of Technology in Computer Science Engineering

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 | React, FastAPI, Python (PuLP), Plotly, MongoDB

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 | Next.js, React, Tailwind CSS, JavaScript, Vercel

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.