# Arunima Biswas

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Education

National Institute of Technology Durgapur, India — Jul 2022 – Jun 2026
Bachelors of Technology in Computer Science and Engineering

Projects

DreamNest — Jul 2024 – Aug 2024
MongoDB, Express.js, React.js, Node.js, SCSS, Material UI
GitHub Repo

- Developed a complete platform for property management, including authentication, dynamic listing creation, and efficient photo management.
- Implemented calendar-based bookings, a category-based feed, advanced search functionality, and a user-friendly wishlist.
- Secured and optimized with JWT and Bcrypt for enhanced security.
- Crafted a frontend experience with Redux, Sass, and Material UI for seamless user interaction.

Scrapo — Nov 2024 – Dec 2024
Node.js, Puppeteer, JavaScript, MongoDB, Cron Jobs

- Built an automated solution using Puppeteer for efficient data extraction from multiple websites.
- Extracted and organized text and images, transforming raw web content into usable formats.
- Executed functionality to capture both partial and full-page screenshots for documentation.
- Streamlined form submissions through automation, enhancing overall data collection efficiency.
- Utilized Node-Cron to ensure regular and timely execution of scraping tasks.

ExamPro — Sep 2024 – Nov 2024
Programming Language: C++

- Devised a C++-based online examination portal featuring user registration, authentication, and result management.
- Incorporated file handling for secure data storage.
- Integrated custom email/mobile validation.
- Designed an interactive menu-driven interface.
- Demonstrated proficiency in object-oriented programming, input validation, and debugging.

Automated Robot
Miscellaneous Project

- Collaboratively created a robot using NodeMCU with features such as line-following, obstacle avoidance, remote control, and a robotic arm.

Technical Skills

- **Programming Languages:** C++, C, Python, Java, SQL
- **Web Technologies:** HTML, CSS, JavaScript, MongoDB, React, Node.js, Express, MySQL
- **Miscellaneous:** MySQL, AWS, Git, Linux, Figma, Canva

Relevant Coursework

Computer Science: Object-Oriented Programming, Data Structures and Algorithms, Database Management System, Computer Networks, Operating Systems, Compiler Design, Computer Organization and Architecture
Mathematics: Optimization, Discrete Maths, Probability and Random Processes, Number Theory, Linear Algebra

Positions of Responsibility

Senior Developer, Centre For Cognitive Activities — 2023 – present

- Promoted robotics through targeted workshops, leading hands-on sessions on automation and emerging technologies, resulting in increased participant engagement and technical skills development.
- Organized robotics workshops and seminars, attracting 200+ participants and increasing engagement in technical fields.
- Conducted hands-on sessions on automation and machine learning, enhancing participants' practical skills.

Senior Coordinator, Aarohan — 2023 – present

- Led the publicity efforts and managed the technical execution of the festival.
- Implemented innovative marketing strategies, increasing event participation by 30%.
- Streamlined technical event operations, ensuring seamless coordination and execution.