Arup Dutta

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# SUMMARY

# Proficient in software development, designing and developing web applications using HTML, CSS, JavaScript, Node.js, and React. Skilled in creating complex backend systems, web services, RESTful APIs, and databases. Known for my analytical mindset and problem-solving abilities, dedicated to meeting demanding development objectives within tight schedules while delivering high-quality code. Versatile in frontend development, Java, Python, DevOps practices, Docker, GitHub Actions, and CI/CD pipelines.

# EXPERIENCE

## Associate adviser (Apprenticeship)

### BT Group

### Kolkata (On-Site) December 2024 – Present,

* **Responsibility**: Utilized a range of internal tools and platforms to support operations and improve overall customer experience, ensuring smoother digital interactions and process efficiency.

## Full-Stack Developer (Contractor)

### Spark Strand July 2024 –March 2025,

### London (Remote)

* **Responsibility**: Implementing different features on various products and improving the codebase.
* **Contribution**: Worked on both frontend and backend development, created different RESTful APIs, optimized performance and scalability, and served as a quality engineer by clearing people's code, fixing issues, and optimizing it. Additionally, worked on Docker CI/CD pipelines and GitHub Actions for continuous integration and deployment.
* **Tech Stack**:  Utilized Next.js for dynamic front-end and back-end infrastructure, Prisma for scalable data storage, PostgreSQL as the database, Docker for containerization, and GitHub Actions for CI/CD pipelines.

## Full-Stack Developer

### String Ocean (Intern) February 2024 –June2024,

### West-Bengal

* **Responsibility**: Crafted a multifaceted web application focused on optimizing healthcare navigation and fostering community well-being.
* **Contribution**: Integrated intricate algorithms for precise geo-location mapping, comprehensive search functionality, and real-time data synchronization with external healthcare databases. Developed and deployed scalable web applications using React.js, Node.js, Express.js, and MongoDB, leading to a 30% increase in user engagement and a reduction in server response time. Created and integrated RESTful APIs for seamless data exchange. Additionally, served as a quality engineer, ensuring code quality, fixing issues, and optimizing performance.
* **Tech Stack**: Utilized React.js for dynamic front-end interactions, Express.js for robust back-end infrastructure, MongoDB for scalable data storage, Google Maps API for seamless integration of location-based services, and RESTful APIs for efficient data communication.

# EDUCATION

## Bachelor of Computer Application

Dr. B. C. Roy Academy of Professional Courses (MAKAUT) • Durgapur • 2024 • 8.59 CGPA

## Higher Secondary

COMMERCE • Purulia Zilla School • Purulia • 2021 • 80.2%

# SKILLS

**Programming Language:** Python, Java, JavaScript, C, HTML **Framework:** React.js, NEXT.js, Express.js, Node.js, Tailwind

**Database:** MySQL, MongoDB, PostgreSQL, Oracle

**DevOps Tools:** Docker, Azure, GitHub Actions, CI/CD pipelines

# PROJECTS

## College Placement Portal Prototype (Dr. B.C.Roy Engineering College)

Link - [github.com/Arup3105/FinalYearProject](https://github.com/Arup3105/ProjectFinal) • December 2023 - May 2024

Developed an intuitive web portal to revolutionize the college's placement process and enhance the user experience for Dr. B.C.Roy Engineering College.

**Technologies Used**: MongoDB, Express.js, React.

### Key Features:

* + Implemented comprehensive data management, efficiently handling large volumes of placement-related information while designing a scalable architecture to accommodate increasing users and data without compromising performance.
  + Integrated advanced analytics, providing insights into placement trends, student performance, and company engagement.
  + Optimized for high concurrency and load balancing, ensuring smooth operation during peak usage, resulting in a 30% increase in system efficiency.
  + Crafted a seamless and intuitive user interface, leading to a 25% improvement in user satisfaction metrics.

## Network Monitoring Application

[github.com/Arup3105/MinorProject](https://github.com/Arup3105/MinorProject) • September 2023 - November 2023

Built a comprehensive network monitoring application to monitor connected devices, tracks data usage, and scans open ports to identify vulnerabilities. Designed to enhance network security,

**Technologies Used:** Python, Scapy, psutil, Nmap, Tkinter.

### Key Features:

* + Real-time data visualization of network activities, resulting in improved monitoring accuracy by 20%.
  + Alerts for unusual network activities and potential security threats, reducing response time to security incidents by 30%.
  + Monitoring of open and vulnerable ports, leading to a 25% decrease in network vulnerabilities.
  + Data usage monitoring for connected devices with 100% accuracy, enabling precise bandwidth allocation and congestion reduction.

# CERTIFICATIONS

## Ethical Hacking and Cyber Security

* Indian School of Ethical Hacking • 2023

## Online Certification

* [Cloud Computing: Understanding Core Concepts](https://www.linkedin.com/learning/certificates/17746ad550dff49975f2436f8c1cd21450de432de30b8e8fa163311d3d22b94a?trk=share_certificate).
* [Azure DevOps Engineer Expert](https://www.linkedin.com/learning/certificates/a6b6e6282b6cf4e13b620f64d9261009750d7b2b40143bb96b5726f6cff2a786?trk=share_certificate)
* [Career Essentials in GitHub Professional Certificate](https://www.linkedin.com/learning/certificates/19dbe8fba6906007166f1e705169fd51eedb4051c98e5cc7b7be23d2d1b3d5a8?u=91074794)