

Shourjo Aditya Chaudhuri

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OBJECTIVE & EDUCATION

- Undergraduate student actively looking for a summer internship (willing to relocate temporarily).
- Bachelor of Science: (Major 1) Computer Science (Major 2) Data Science (Double Major)** • GPA: 4.0/4.0; **Dean's List**
- University of Wisconsin-Madison** • Madison, WI • Graduation: May 2025

RELEVANT COURSEWORK

- Java and Object-Oriented Programming I, II, and III • Discrete Math • Linear Algebra and Matrices • R Programming II • Data Structures & Algorithms • Introduction to Computer Engineering • Calculus II and Analytical Geometry

WORK EXPERIENCE

- University of Wisconsin-Madison, Mathematics Tutor** **Madison, WI (May 2023 – Present)**
 - Tutored **500+** students on Advanced Calculus and Discrete Math concepts by emphasizing group-based learning.
 - Hold office hours, structured tutoring sessions and grade assessments and exams.
- Rensol Technologies, Software Development Intern.** **New Delhi, India (July 2023 – Aug 2023)**
 - Worked in a team of **12** to develop the backend of an Ed-tech web application using **PostgreSQL, Node.js and Express.js**.
 - Developed complex **SQL** queries, stored procedures, and triggers for data manipulation and data retrieval.
 - Provided technical support to clients and troubleshooted issues related to front-end deployment.
 - Tested APIs using **Postman** and used **Swagger** to handle the API documentation.
- Premier Vigilance & Security Private Limited, Tech Trainee** **Kolkata, India (June 2022 – July 2022)**
 - Assisted in the modification of the company server application, based on the updated CRM and HR management module, having features such as payroll, billing, and monitoring attendance, using **Java, JavaScript, Node.js, and SQL** database.
 - Performed routine data manipulations, API testing, and features like role-based access using **JavaScript** and **Bootstrap**.
 - Worked in the team of **15**, under the CEO, to write **2000+** lines of code which, in turn, increased the response rate by **3 times** and reduced salary-expenditure by **30%**, saving the company **\$43,000+**.

PROJECTS

- My Contacts** | *JavaScript, React, Node.js, Express.js, MongoDB*
 - Designed and developed REST APIs to store a user's contacts wherein the Express server was integrated with MongoDB (along with a Mongoose Schema) as the database and controllers which communicated with the database.
 - Provided users with a registration and a login API and utilized features such as password hashing (using bcrypt), sign-in JWT tokens, user authorization, user authentication, and protected routes to improve user experience.
 - Leveraged **Thunder-Client** to systematically test the APIs and used express middleware and async handlers to deal with errors to ensure a smooth user-experience.
- Job Tracker** | *JavaScript, React, Node.js, Express.js, MongoDB*
 - Designed and developed a **REST API (CRUD)** to store the user's job applications. Integrated the backend (**Node.js** with **Express.js** for optimized routing) with **MongoDB**. Leveraged **Swagger UI** to handle the documentation.
- Song Searcher** | *Java, Data Structures, JUnit, IntelliJ, Git*
 - Developed a song searching application which read songs from a **CSV file**, inserted them in a **Red-Black Tree** and performed various functionalities by setting up an interactive loop in the frontend. Tested the app using **JUnit**.
- Flight Router** | *Java, Data Structures, Algorithms, JUnit, IntelliJ, Git*
 - Developed a Flight Router application which used **Dijkstra's algorithm** and enabled users to find the shortest sequence of flights between airports. The data, of airports and flights, was loaded from any **dot file** that the user specified.
- FitNow** | *JavaScript, React, Material UI, HTML, Bootstrap, Rapid API, Netlify*
 - Developed a dynamic fitness exercise app using **React** and used **Material UI** to create the user interface. Implemented various functionalities and deployed the app using **Netlify**. Leveraged APIs to fetch data and display related videos.
- Crime NYC** | *R Programming*
 - Worked on a dataset which helped me analyze crimes in NYC. Performed hypothesis testing using p-value tests to eventually determine the correctness of the null hypothesis. Graphs and charts were displayed for data visualization.

ORGANIZATIONS & AFFILIATIONS

- Charityst** **Technology Head | Co-founder**
 - Developed and handled the website and all social-media platforms for the student-leg NGO which raised \$8000.
- InSync '21** **Marketing Director | Core Team**
 - Conducted India's largest online entrepreneurship fest which received over 200+ registrations and reached 1500+ people.

SKILLS

- Languages, Frameworks, & Tools:** Java, JavaScript, Python, React.js, Node.js, Express.js, Git, Bash, Mongoose, Swagger, Google Cloud Platform, HTML/CSS, JUnit Testing, IntelliJ, VS Code
- Data & Statistics:** R Programming, SQL, PostgreSQL, MongoDB, MS Excel