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 2026
- **High School Diploma:** • **St. James' School, Kolkata** • ISC (12th): 98.75% (5th highest in the nation) • ICSE (10th): 97%

RELEVANT COURSEWORK

- • Java and Object-Oriented Programming I, II, and III • Discrete Math • Data Science Programming II • Statistical Modelling II • Data Structures & Algorithms • Computer Hardware • Applied Databases • Artificial Intelligence and Machine Learning

WORK EXPERIENCE

- **Cogoport, Software Engineering Intern**   **Gurgaon, India (May 2024 – Present)**
  - Working as a Backend Engineer on the Shipments Team using technologies like **FastAPI, PostgreSQL, SQLAlchemy**.
- **University of Wisconsin-Madison, Computer Science & Mathematics Tutor**   **Madison, WI (May 2023 – Present)**
  - Tutored **500+** students on Computer Science concepts and Discrete Math concepts by emphasizing group-based learning.
  - Hold office hours, structured tutoring sessions and grade assessments and exams.
  - Led a Computer Science lab wherein I helped students migrate from different languages to Java.
- **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 (Link)*
  - Designed, tested, and developed REST APIs to store a user's contacts. Incorporated features such as user authentication and registration, login API, password hashing (using bcrypt), sign-in JWT tokens, and protected routes to improve quality.
- **Real-Time Chat Application|** *WebSocket, React.js, Node.js, MongoDB*
  - Developed a real-time messaging platform by engineering a responsive web application facilitating instant communication between users, leveraging Socket.IO for WebSocket technology to enable seamless message delivery without page reloads.
- **AI Teeko Player |** *Search, Minimax Algorithm, Artificial Intelligence,* Python *(Link)*
  - Developed an AI game player for Teeko by implementing a minimax algorithm with alpha-beta pruning to efficiently search the game tree and predict the best move from any given position, ensuring optimal gameplay strategy.
  - Created an internal state representation of the game board and player positions and utilized a heuristic scoring function to evaluate potential moves.
  - Ensured adherence to Teeko's gameplay rules, including the drop phase for initial marker placement and subsequent move selections. Further, conducted rigorous testing to verify the AI's performance, ensuring that it consistently selects moves within the five seconds and achieves a win rate of 85% against random opponents.

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:** Java, JavaScript, TypeScript, Python, Bash, HTML/CSS, R Programming, SQL
- **Frameworks/Technologies:** React.js, Node.js, Express.js, Git, Recoil, Tailwind, Docker, MongoDB, PostgreSQL, FastAPI, SQLAlchemy, Peewee ORM, Flask, Selenium.
- **Soft Skills:** Team Leadership, Problem Solving, Communication, Work Ethic, Time Management, Adaptability.