# Sandipan Mondal

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## EDUCATION & SKILLS

**Rutgers University** - New Brunswick, NJ                                                         **Dean's List** all semesters
Bachelor of Science in **Computer Science**, minor in **Economics**                        **GPA**: 3.86 / 4.00
Graduation Date: May 2024

**Languages**: Java, SQL, Python, JavaScript/TypeScript, HTML/CSS, C, C++
**Frameworks/Libraries/Environments:** React.js, Node.js, Express, JUnit, JavaFX, Redux (familiar)
**Databases**: Relational (PostgreSQL, Oracle Database), NoSQL (MongoDB, Firebase)
**Tools:** Git, GitHub, NPM, VScode, Eclipse, IntelliJ, Android Studio, MATLAB

**Certificates:** AWS Cloud Practitioner (ongoing)
**Related Coursework:** Software Methodology (OOP), Internet Technology (Networks), Data Management for Data Science, Algorithms, Data Structures, Numerical Analysis, Computer Architecture

## PROJECTS & SOFTWARE DEVELOPMENT EXPERIENCE

**Face Detection Website (Full Stack)** | Website-Demo | Frontend-GitHub & Backend-GitHub
- Capstone software development project where users can paste an image into the website, and a box will appear around every human face detected.
- Utilized Clarafai's **REST API** to detect and help pinpoint the location of each human face.
- Implemented the entire user signup/registration form with password encryption and kept user information in a relational database.
- Communicated with PostgreSQL using **Knex.js** (SQL query builder) from Node + Express backend**.**
- Web App deployed on **Heroku** with endpoint testing on **Postman**.
- Used: ***React, Node.js, Express, PostgreSQL, JavaScript, HTML, CSS Tachyons, REST APIs***

**MERN To-do App (Full Stack)** | GitHub
- Developed a To-do app where users can create, read, update, and delete items at their leisure.
- Stored and fetched items in a NoSQL database (MongoDB) using **Mongoose**.
- Utilized the **Axios** library to make HTTP requests to the REST API in the backend.
- Used: ***React, Node.js, Express, MongoDB, Mongoose, JavaScript, HTML/CSS***

**Real-Time Chat Application** | GitHub
- Created a messaging web app where users can message each other in real time.
- Designed a responsive UI using Tailwind CSS & put message/user data in the **Firestore** database**.**
- Implemented **Google authentication** for user login via Firebase authentication in React frontend
- Used: ***React, Firebase, JavaScript, HTML, Tailwind CSS***

**Cafe Android App** | GitFront
- Functional Android App where customers can order Coffee and different types of Donuts.
- Incorporated **CRUD** functionality as users and managers can generate, view, update, and remove multiple orders as deemed necessary with a running subtotal in the background.
- Used: ***Java, Android Studio***

## EXTRACURRICULARS

- **Quantitative Finance Club**: Developed a Momentum Python Trading Algorithm based on Markov Chains to predict future stock trends that placed 4th / 20+ teams in SQC Competition.