

# Sandipan Mondal

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## EDUCATION

### Rutgers University

Bachelor of Science in Computer Science, Minor in Economics

GPA: 3.87 / 4.00

New Brunswick, NJ

Expected: May 2024

Dean's List: Fall 2020 - Spring 2022

**Coursework:** Software Methodology (Object Oriented Programming), Data Management for Data Science, Algorithms, Data Structures, Computer Architecture, Internet Technology (Networks), Numerical Analysis

## SKILLS

**Languages:** Java, SQL, Python, JavaScript/TypeScript, HTML/CSS, C, C++

**Frameworks/Libraries/Environments:** React.js, Node.js, Express, JUnit, JavaFX, Redux (proficient)

**Databases:** Relational (PostgreSQL, Oracle Database), NoSQL (MongoDB, Firebase)

**Tools:** Git, GitHub, NPM, Visual Studio Code, Eclipse, IntelliJ, Android Studio, MATLAB, Postman

**Certificates:** AWS Cloud Practitioner (ongoing)

## PROJECT EXPERIENCE

### FACE DETECTION WEBSITE (FULL STACK) | [Live-Demo](#) | [Frontend-GitHub](#) | [Backend-GitHub](#)

Web Development

React, Node.js, Express, PostgreSQL, JavaScript, HTML/CSS, RESTful API

- Launched a capstone software development project that utilized Clarifai's Face Model REST API to detect, pinpoint, and help draw boxes around human faces in images given by the users
- Implemented/designed a responsive user signup/registration form with encryption and kept user information, including the number of images per user, in a relational database
- Developed a Node + Express server and communicated with PostgreSQL using Knex.js (SQL query builder)
- Web App deployed on Heroku with endpoint testing on Postman

### MERN TO-DO APP (FULL STACK) | [GitHub](#)

Web Development

React, Node.js, Express, MongoDB, Mongoose, JavaScript, HTML/CSS

- Developed a To-do app where users can create, read, update, and delete items at their leisure
- Created a server and REST API using Node/Express & stored items in the MongoDB database using Mongoose
- Built frontend with React & utilized the Axios library to make HTTP requests to the REST endpoints in the backend

### REAL-TIME CHAT APPLICATION | [GitHub](#)

Web Development

React, Firebase, JavaScript, HTML, Tailwind CSS

- Created a messaging web app where users can message each other in real-time
- Designed a responsive UI via Tailwind CSS & retrieved/stored messages + user-data in the Cloud Firestore database
- Implemented Google authentication for user login via Firebase authentication in React frontend

### CAFÉ ANDROID APP | [GitFront](#)

Mobile Development

Java, Android Studio

- Built and designed a functional Android App where customers can order Coffee and different types of Doughnuts
- 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 various android views and layouts for different activities such as Donut Order and Cart View

## LEADERSHIP & EXTRACURRICULAR ACTIVITY

### RUTGERS QUANTITATIVE FINANCE CLUB | [Trading-Algorithm](#)

September 2021 - Current

- Led a team in the Fall **Salhotra Quant Challenge** (SQC) for the best algorithm and placed 4th / 25+ teams
- Developed a Momentum Python trading algorithm based on Markov Chains that had over \$15,000 in Net Profit with a return of 148.34% in QuantConnect IDE