

# Sandipan Mondal

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## EDUCATION

### Rutgers University - New Brunswick

Expected August 2023

Bachelor of Science in Computer Science

- **GPA:** 3.89/4.0
- **Dean's List:** Fall 2020 - Present

## SKILLS

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

**Frameworks/Libraries/Environments:** React.js, Node.js, Express.js, JUnit, JavaFX, Redux, Pandas

**Tech/Databases:** Docker, Kubernetes, PostgreSQL, Oracle Database, MongoDB, Firebase, Git, Android Studio, Eclipse

**Coursework:** Software Methodology (OOP), Data Management, Data Science, Algorithms, Databases, Internet Technology

## EXPERIENCE

### Incoming Software Engineer Intern

June 2023 - August 2023

Lumen Technologies

Remote

- Placed within Agile based Security DDoS Team to engineer code and handle bug fixes within DDoS Application
- Develop new web APIs/applications in addition to working on Cloud Integration and Infrastructure Testing
- Java, Spring Framework, VueJS, Typescript, Cloud Technologies, Salesforce Applications

### Research Assistant

January 2023 - Present

Rutgers University

New Brunswick, NJ

- Designing fast internet services using C/C++, Docker, and Kubernetes

## PROJECTS

### Face Detection Website | Full Stack

[Frontend](#) | [Backend](#) | React, NodeJS, Express, PostgreSQL, JavaScript, HTML/CSS, RESTful API

- Deployed Web Application, which scans user inputted images and detects location of human face, through Heroku
- Utilized Clarifai Face API to extract face location coordinates from image to construct visual box around face
- Implemented/designed a responsive user signup/registration form with bcryptJS encryption that protects user info in relational database which includes, for example, the number of images per user
- Developed a Node + Express server and communicated with PostgreSQL using Knex.js (SQL query builder)

### Automated BankTeller

[GitFront](#) | Java, JavaFX, JUnit, OOP

- Produced a scalable application that processes numerous bank transaction (withdrawals, deposits, cancellations, deletions) for customers & multiple different account types (MMAs, Checking, etc.) using Software Engineering OOP principles
- Performed JUnit testing to ensure application reliability through test cases such as misinput, and invalid transactions
- Designed a responsive UI using JavaFX that displays/categorizes bank info including transactions, names, balance etc

### MERN To-Do App | Full stack

[GitHub](#) | React, NodeJS, Express, MongoDB, Mongoose, JavaScript, HTML/CSS

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

## LEADERSHIP

### Quantitative Finance Club | [Trading-Algorithm](#)

September 2021 - Present

- Led a team in the Fall Salhotra Quant Challenge (SQC) for the best algorithm and place 4th / 25+ teams
- Devised 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