

# Sandipan Mondal

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## EDUCATION

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### Rutgers University

*Bachelor of Science in Computer Science*

**GPA:** 3.875/4.00

**Honors:** Summa Cum Laude, Dean's List since 2020

New Brunswick, NJ

*August 2023*

## TECHNICAL SKILLS

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

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

**Tech/Databases:** Docker, Kubernetes, MySQL, PostgreSQL, Oracle Database, MongoDB, Firebase, Git

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

## EXPERIENCE

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### Software Engineer Intern

*Lumen Technologies*

June 2023 – Present

*Remote*

- Placed within Agile based Security DDoS Team to engineer code and handle bug fixes within DDoS Application
- Java, Spring Framework, VueJS, Typescript, Cloud Technologies, Salesforce Applications

### Research Assistant

*Rutgers University*

January 2023 – May 2023

*New Brunswick, NJ*

- Utilized Docker/Kubernetes to deploy/orchestrate pods/containers, enabling efficient communication and behavior testing with customized yaml configurations for specific goals
- Ran tests on Linux/Unix environment using Kind, MiniKube, and Kubeadm to gain insights into Kubernetes/container mechanisms
- Conducted extensive research on the network implications and characteristics of Microservices and Monolithic systems, effectively presenting findings to inform decision-making

## PROJECTS

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### Face Detection Website | Full Stack | *React, NodeJS, Express, PostgreSQL, JavaScript* | [Frontend](#) | [Backend](#)

- Developed Web Application that scans user inputted images and detects location of human face within image
- Employed Clarifai REST API to extract face location coordinates from image to construct visual box around face
- Implemented/designed responsive user signup/registration form with bcryptJS encryption that protects user info, such as number of images, in relational database
- Developed a Node + Express server and communicated with PostgreSQL using Knex.js (SQL query builder)

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

- Produced a scalable application that processes numerous bank transaction (withdrawals, deposits, cancellations, deletions) for customers & multiple different account types (MMAs, Checking, etc.)
- Performed JUnit testing to ensure application reliability through various misinput/invalid transaction testing
- Designed a responsive UI using JavaFX to organize bank info including transactions, balance, name etc

### MERN To-Do App | Full Stack | *React, NodeJS, Express, MongoDB, Mongoose, JavaScript* | [GitHub](#)

- 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 REST endpoints in the backend
- Created a server and REST API using Node/Express & stored items in MongoDB cluster using Mongoose

## LEADERSHIP

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### Quantitative Finance Club

*Trading-Algorithm*

September 2021 – May 2023

- 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