

# Abdur Rahman Abul Hossain

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## PROFILE

Computer Science graduate with hands-on experience in full-stack development and enterprise software environments. Skilled in building and integrating REST APIs, working with relational and NoSQL databases, and deploying cloud-based applications. Ready for immediate relocation for the job.

## SKILLS

**Languages:** JavaScript, TypeScript, Python, C#, Java, C++

**Frontend:** React, React Hooks, React Router, CSS, HTML, Redux, Redux toolkit, Nextjs, Material UI, React Bootstrap, TailwindCSS, jQuery

**Backend:** Nodejs, Express, REST Api, FastAPI, ASP.NET core, MongoDB, Mongoose, PostgreSQL, MySQL, Sequelize, Redis

**Tools & DevOps:** Git, GitHub, Github Actions, Docker, Docker Hub, Heroku, AWS, Linode, Jira, Nginx

**Automated Testing:** Mocha, Chai, Jest, Selenium

**Data Science/Machine Learning:** NumPy, Pandas, Matplotlib, Scikit-learn, BeautifulSoup, Jupyter Notebook, Jupyter Lab, Power BI

## EXPERIENCE

### Full Stack Developer

Jan 2024 - Jan 2025

StockDat (Entrepreneurial Project)

- Developed an index based stock screener with **React (Next.js) frontend and Python FastAPI, MongoDB backend**, enabling real-time analysis of 500+ stock symbols with <500ms query response time.
- Built **REST API routes with FastAPI, integrated Swagger OpenAPI for testing**, and added **Redis-based rate limiting to block 100%** of simulated malicious traffic during tests.
- Containerized and deployed both **frontend and backend using Docker**, enabling seamless deployment across environments and **reducing setup time by 70%**.
- Implemented a **decoupled architecture**, reducing code dependencies and **cutting future feature integration time by 40%**.
- Automated CI/CD pipelines with GitHub Actions to AWS EC2**, decreasing manual deployment effort by 95% and enabling zero downtime updates.
- Configured Nginx as a reverse proxy** with automated SSL (Certbot), resulting in zero SSL downtime and 99.9% uptime across 12 months.

### Technology Assistant

Sep 2019 - Dec 2019

Memorial University of Newfoundland (4 months Contract)

- Developed a blog website using Wix for research projects to disseminate material for the larger community.
- Researched various **community engagement** events to document and post on the research blog.

### Public Engagement Research Assistant

Jun 2018 - Sep 2018

Memorial University of Newfoundland (4 months Contract)

- Prepared, reviewed, and analyzed datasets** for reports presented to senior faculty.
- Drafted and **formatted Excel reports**, summaries, and documentation for internal use.
- Assisted in organizing and documenting community events and media outreach.

### Food Server and Cashier

Dec 2018 - Nov 2020

Taste East Inc.

- Handled cash, customer service, point-of-sale responsibilities, and **processed 50+ customer transactions** per shift.
- Managed **inventory, stocked supplies**, and maintained a clean, organized workspace.
- Cooked food and served customers while balancing multiple tasks in a fast-paced environment.

## FEATURED PROJECTS

### Algorithmic Investing

- Created a Python-based data science project using **Pandas, NumPy, and IEX Cloud API** and Jupyter Lab to automate S&P 500 portfolio allocation.
- Automated creation of **Excel Spreadsheets** from Pandas DataFrame by writing Python scripts.

### MyPost

- Built a Full Stack social media app with **MongoDB, Express, NodeJs, React, React Bootstrap, Redux Toolkit, React Router and Axios**.

- Implemented authentication using JWT, password hashing with Bcrypt, asynchronous state management with Redux Toolkit, routing with React Router and data modeling with Mongoose. **Tested API routes** using Postman.

### **RGB-Color-Game**

- Built a RGB-Color guessing game with **Swing and Java using IntelliJ**.
- Implemented reset feature and difficulty levels.
- Implemented game logic so it generates random colors and the player has to guess which of the RGB colors matches with the RGB color mentioned on the top panel.

### **Financial Calculator-(Android)**

- Developed a native **Android app (Java, Android Studio)** to calculate compound annual growth rate, featuring a responsive UI and accurate mathematical computation.

### **Blokus Game**

- Built a strategy board game with **Swing and Java using IntelliJ**.
- Implemented game logic, save/load feature and built 3 computer modes to play against computer.

## **EDUCATION**

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**MEMORIAL UNIVERSITY OF NEWFOUNDLAND** | St. John's, NL, Canada

**Bachelor of Science (BSc): Computer Science | 2024**

**Selected Coursework:** Data Structures and Algorithms, Operating Systems, Web Programming, Computer Networks, Software Engineering, Data Mining, Data Prep.

## **CERTIFICATIONS**

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**AWS Certified Cloud Practitioner** – Amazon Web Services (Apr 2023)

**The Modern React Bootcamp** – Udemy (Mar 2023)

**The Advanced Web Developer Bootcamp** – Udemy (Feb 2023)