

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

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

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

The Modern React Bootcamp – Udemy (Mar 2023)

The Advanced Web Developer Bootcamp – Udemy (Feb 2023)