MAHDIUR **RAHMAN**

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OBJECTIVE: To become a software engineering intern

PROFESSIONAL PROFILE

- Currently in CUNY Tech Talent Pipeline Bootcamp Summer 2019; learning MERN Stack
- Member of CUNY Startups Accelerator Fall 2017 cohort; planned and designed potential apps
- Programmed front end components with React; programmed page logic with Javascript
- Programmed data-management algorithms with C++ (programs for search & sorting data)
- Served as head-canvasser at Terra Strategies & Robin Hood Charity; collected data in field and logged into excel
- Worked as Technician in pharmacy; managed over 1000 patient profiles on Intercom-Plus

SUMMARY OF SKILLS

- **FRONT-END**: React.js, HTML, CSS, Bootstrap, FlexBox, JavaScript, jQuery
- **BACKEND (still learning):** NodeJS, Express
- **SOFTWARE**: C++, oCaml, OOP, Visual Studios, Familiarity w/ Python
- **DATA STRUCTURES**: Lists, Stacks, Ques, AVL Tree, B Tree, Heaps, Hashtables, Priority Queues, Disjoint Sets

- **ALGORITHMS**: Sorting (Quicksort, Mergesort, Shellsort, etc.), Greedy Search, Dijkstra Shortest Path, Divide and Conquer, Dynamic Programming
- **ARTIFICIAL INTELLIGENCE**: Common LISP, Markov Decision Models, Reinforcement Learning
- **FINANCE**: Balance Sheets, Net Present Value, Rate of Return, Weighted Average Cost of Capital, Valuing

Securities, CAPM & SML, Dividend Analysis, Fundamental & Statistical Analysis
- **ADMINISTRATION/BOOKKEEPING**: Mic. Excel, Word & PowerPoint, Intercom-Plus (Prescription management soft.)
- **LEADERSHIP**: Head of team at CUNY Startups, Head Canvasser (managed three canvassers)

PROJECTS *more info on GitHub page: github.com/MahdiurRahman*

- oCaml: Huffman-Code Compression Algorithm
- Sorting Test Project: Tested speed of Insertion, Selection and Merge sort on various sample sizes.
- RGB Color Game: JavaScript based game where you match the color with the RGB value.
- To-do List: HTML To-do list which demonstrates mastery of Javascript (w/ jQuery), CSS and HTML concepts.
- Dijkstra Shortest Path: uses minheap and Dijkstra's algorithm to give shortest routes between nodes.
- React Components: created navbar, post and profile components (reusable designs used to create front end)

EDUCATION

1st Major: *Bachelor's in Computer Science, Hunter College, New York* ....December, 2019 (expected)

2nd Major: *Bachelor's in Economics, Hunter College, New York* ....December, 2019 (expected)

High School Degree, Bronx High School of Science, Bronx, NY ....June, 2014

*HONORS: Dean's List 2 Semesters *(Fall 2014, Spring 2018)*

Member of CUNY Startups Fall 2017 cohort

COURSE HISTORY

- **COMPUTER SCIENCE:** Discrete Structures | Software Design I | Software Design II | Software Design III | Computer Architecture I | Computer Architecture II | Artificial Intelligence | Computer Theory | Functional Programming with oCaml | Logical Basis Programming
- **MATHEMATICS:** Matrix Algebra | Calculus I | Calculus II | Statistics

- **ECONOMICS:** Corporate Finance | Economic Statistics | Business Organization | Econometrics | Public Finance | Securities & Investment Analysis
- **OUTSIDE ACADEMICS:** Front-end from *FreeCodeCamp*, *Codecademy* | *Colt Steele's Web Dev Bootcamp* | Bob Ziroll's *Learn React.js* | Currently in CUNY TTP bootcamp for MERN Stack

EXPERIENCE

CUNY Tech Talent Pipeline Bootcamp Summer19 | Full-Stack Student | *5/2019 – 8/2019 (Currently still attending)*

- Accepted via *Codility* exam (online algorithm analysis assessment); received second highest score.
- Learning MERN Stack: MongoDB, Express, React (with Redux) and Node
- Have completed learning React though the program

Hackfest (*hackathon*) Spring 2019 at Microsoft | Participant | *3/2019*
- Worked on front end components for student resource aggregator
- First introduction to React
- Used React, Javascript, HTML, CSS for front-end assets

CUNY Hackathon Fall 2017 | Participant | *11/2017*
- Worked on front end components for charity aggregator
- Used HTML, CSS and Javascript

CUNY STARTUPS FALL 2017 COHORT | Team Leader | Front-End Development | *8/2017 – 12/2017*
- Served as team-leader; specialized in front-end UI design and showed great design ethic
- Met biweekly to discuss project goals, assigned software tasks to team members
- Prepared wireframes/designs for app development

DUANE READE PHARMACY | Technician | Bookkeeping | *9/2015 – 8/2016*
- Used software intercom plus to manage over 1000 patients
- Validated insurance issues, logged insurance/prescription information, handled bookkeeping for medications
- Communicated technical knowledge to customers; maintained professionalism while discussing personal issues

TERRA STRATEGIES (W/ Robin Hood Charity) | Head Canvasser | Leadership, Administration | *3/2017 – 8/2017*
- Went to low-income communities in NYC; connected people to social workers & collected data on canvas
- Managed team of four (including me) canvassers; assigned locations, meet-up times, checkups on team
- End of shift data management; recorded team members' performances, logged data into excel system