MAHDIUR RAHMAN

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SKILLS

- **LANGUAGES** C++, HTML, CSS, JavaScript, oCaml, LISP, MIPS
- **TECHNOLOGIES** React.js, jQuery, BootStrap, FlexBox, Git

PROJECTS

Huffman Compression Algorithm | *oCaml*

- Developed a file compression program using the Huffman-Tree technique in oCaml.
- Created unique solution to compression problem: made compression program which creates unique decompression program for each file that is compressed.

Dijkstra's Shortest Paths Algorithm | *C++*

- Final and toughest Algorithms III project: was hands-free and tested creativity of student.
- Used min-heap along with two custom data structures to implement Dijkstra's shortest-path system; involved careful understanding of object to object interaction and clever memory management.
- Finished assignment before classmates; went about mentoring classmates on their own projects.

CS Study Group (Fall 2019) | *C++, LISP, MIPS*

- Organized and took on leadership role of informal CS study group with classmates. Initiated and guided discussions and test preparations. Often deferred to by group for final input/approval on projects.
- Frequently provided last minute solutions in times when group project hit a wall.
- A.I. Project: Group unable to decide on approach for puzzle-solver program. Lead discussion, and formulated method for puzzle solving. Lead discussion on the data structures used for proposed method. Able to delegate tasks and create functioning puzzle-solver. *Programmed in LISP*
- Comp. Architecture Project: Group unable to manage CPU effectively via MIPS—personally restructure entire code. Thoroughly explain and make sure team members understand solution—group receives A+ for grade. *Programmed in MIPS*

EXPERIENCE

CUNY Tech Talent Pipeline Bootcamp Summer 2019 | *HTML, CSS, JavaScript, React.js* | *5/2019 – present*

- Accepted via online coding exam; received second highest score.
- Have furthered CSS capabilities via FlexBox, upgraded JavaScript capabilities to ES6, and become efficient with React.js.
- React Project: created Navbar component and Grid component, itself composed of Post components, as front-end assets.

CUNY Startups Fall 2017 Cohort | *8/2017 – 12/2017*

- Lead team of four students to pitch venture which aimed to provide user-to-user rentals.
- Was project manager of team; lead discussion on weekly goals, managed team's tasks on Trello, made sure deadlines were met.
- Developed UX designs on Proto.io; tested design on small set of fellow cohorts, updated designs as necessary.
- Set up Qualtrics surveys to collect market feedback; able to use feedback to pivot to video game rentals.

EDUCATION

- BA Computer Science & BA Economics, Hunter College | *Graduation: Dec 2019 (expected)*

COURSE HISTORY

- **COMPUTER SCIENCE** *Discrete Structures* | *Software Design I – III* | *Computer Architecture I – II* | *Artificial Intelligence* | *Computer Theory* | *Functional Programming in oCaml* | *Logical Basis of Programming*
- **MATHEMATICS** *Matric Algebra* | *Calculus I – II* | *Statistics*
- **SELF-STUDY** *Colt Steele's Web Dev Bootcamp* | *Bob Ziroll's Learn React* | *Brad Traversy's MERN Stack*

HONORS

- Dean's List, Hunter College, 2018
- Dean's List, Stony Brook University, 2014
- Attended specialized high school Bronx Science