

Ibtida Bhuiyan

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GitHub: <https://github.com/ibhuiyan17> Personal Website: <http://ibtida.me>

Education

University of Michigan — Ann Arbor

GPA: 3.57/4.0; Bachelor of Science in Engineering, Computer Science; Graduating December 2020

Relevant Coursework

Data Structures & Algorithms, Theory of Computation, Web Systems, Networks, Databases, Operating Systems, Software Engineering

Skills

Strong: Java, C/C++, Python, React.js, REST Web Services

Knowledgeable: Git, SQL, Spring Boot, Apache Kafka, AWS, Jenkins

Work Experience

Software Engineer Intern, Expedia Group — June - August 2020 | Virtual

- Interned as a backend software engineer working with Java (Spring), AWS, and Apache Kafka to make improvements to a data streaming pipeline distributing content changes for 5million+ properties.
- Modified an app to use an improved pipeline, notifying clients of property change updates 60x faster.
- Released multiple new features for a comparator to validate that changes have no negative impact to clients before being deployed to production. Genericized it so it can be used for any future validation.
- Discovered and presented future cloud cost saving opportunities by optimizing resource utilization to better leverage concurrency, unlocking the potential to cut the cost of running certain apps by 50%.

Valet Supervisor, First Class Valet — April 2018 - August 2019 | Rochester Hills, MI

- Worked as an on-call employee and supervisor at 30+ locations to ensure smooth operation, servicing 25+ cars per shift while upholding the company's reputation for outstanding service.
- Encouraged teamwork amongst employees through designating roles to individual valets, resulting in an increase in efficiency of services and leading to higher customer satisfaction.

Projects

Personalized Playlist Maker (Spotify Extension) Link: <http://www.spotify-ppm.com>

- Utilized Node.js and React.js to build an extendable, interactive web app that allows users to generate new playlists using their top tracks, artists, and genres as seeds using the Spotify Web API.
- Took advantage of a React UI Library to follow Material Design principles introduced by Google in 2014 to offer an aesthetically pleasing and easy-to-use User Interface.
- Deployed the app on a Heroku dyno running 24/7 to serve 20+ active users.

Network File Server

- Built a robust, multithreaded hierarchical file server in C++ that uses network sockets and an RPC (remote procedure call) architecture as the form of communication between clients and the server.
- Provided an interface for clients to create, delete, read, and write files and directories in the server.
- Assigned reader/writer mutexes on a directory and file-level granularity, allowing the server to service multiple requests at once while still ensuring thread safety in reads and writes to a shared entity.

Extracurricular Activities

Core Lead, Michigan Hackers — September 2018 - Present

- Initialized a core-team aiming to support members in developing their programming skills in groups of 3-5, resulting in higher levels of contribution to projects and a more positive membership experience.
- Took an executive role in overseeing projects through their development lifecycles by checking in with groups during weekly hack-nights and offering suggestions to aid in boosting productivity.

AMDA Sterling Heights — September 2012 - Present

- Took a leadership position in planning and executing a picnic fundraiser for the community and overseas charity foundation, Poriborton, in the Spring of 2017.
- Volunteered at various soup kitchens around Detroit, taking on the role of cooking and serving food to low-income individuals in the area.
- Periodically cleaned roads with the Adopt-a-Road program organized by the Road Commission for Oakland County to help support the goal of maintaining a clean environment.