MONICA IBRAHIM -

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WORK EXPERIENCE
Facebook, Seattle - Software Engineer Jan '2'
 Facebook, Seattle - Software Engineer Intern (Open Source Tooling Team) June '20 - Aug '20 Helped unify the exchange of code reviews (CRs) between FB's internal CR tool and GitHub Pull Requests (PRs). Displayed inline comments from imported PRs internally in the relevant file change sets. Developed a component that displays a history of changes for imported and exported PRs. Hack/PHP, JavaScript, React, Flow, GraphQL, Relay, HTML, CSS
Northeastern University - Teaching AssistantSept '19 - Apr '20CS5002 Discrete Math CS5004 OOD in Java
LANGUAGES AND TECHNOLOGIES
Languages: Java, JavaScript, Hack/PHP, TypeScript, C, Python, SQL, HTML, CSS Tools & Frameworks: React, Redux, Angular, Flow, GraphQL, Relay, NodeJS, JPA, MySQL, MongoDB, mongoose, Rabbit MQ, Dynamo DB, HBase, AWS EMR, AWS S3, MapReduce, Apache Hadoop, Git, JUnit, Maven, VirtualBox, gdb Operating Systems: Mac OS, Linux (Ubuntu), Windows
PROJECTS
Cost & Scalability Analysis: optimizing server QPS Oct - Dec '20' • Built a multithreaded client to exert 128, 256 & 512 max concurrent requests (during peak phase) on the server. • Measured & optimized server QPS given various configurations (e.g. adding a queue, relational vs. non-relational DB, etc.) Distributed Systems, Java, AWS EC2, Rabbit MQ, AWS RDS, Dynamo DB, Swagger, Git
Career Search Forum (Web-App): https://afternoon-sands-94723.herokuapp.com/ Apr '20 JavaScript, React, Redux, NodeJS, MongoDB, mongoose, HTML, CSS, IntelliJ, Git
 K-means Clustering: Movie Directors (from the IMDb movie dataset) Built a MapReduce job to group movie directors by some chosen traits and the ratings received for their movies. Preprocessed the raw dataset to flatten multi-dimensional vectors into single representative numbers. Java, MapReduce, Distributed Systems, Apache Hadoop, Apache Pig, AWS EMR, AWS S3, Git
Web-Based Search Engine Oct '19 • Wrote a graph-based web crawler to scrape Wikipedia pages and build an inverted index system (using tokenized terms). • Built a document ranking system (given a query) to return snippets of text from each of the top K documents. Python, VSCode, Regex, HTML • Wrote a graph-based web crawler (given a query) to return snippets of text from each of the top K documents.
Distributed Movie Index and Search Engine Mar - Apr '19
 Crawled ~50 files containing info on 5M movies and built a compact multi-layer index over the dataset. Built a query processor, an interactive CLI and a concurrent server using sockets to answer movie and search queries. C, Vim, VirtualBox, gdb, Git, Linux (Ubuntu)
EDUCATION
MS in Computer Science, Northeastern University, GPA: 3.97/4.0 Jan '19 - Dec '20
Algorithms (C), Advanced Algorithms, Computer Systems (C), Discrete Math, OOD (Java), Databases, Information Retrieval, Web development, Parallel Data Processing, Distributed Systems, Data Mining

Full Time User Experience Design Program, RED Academy

BSc, Cognitive Systems, Cognition and Brain Opt, UBC Vancouver, GPA: 3.5/4.33 May '17

Jul - Sept '17