

MONICA IBRAHIM

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EDUCATION

MS in Computer Science, Northeastern University, GPA: 4.0/4.0 Jan '19 - Dec '20
Algorithms (C), Advanced Algorithms, Computer systems (C), Discrete Math, OOD (Java)

Community Colleges, Edmonds, Lake Washington, Highline, GPA: 4.0/4.0 May - Dec '18
Java 1, Java 2, Linear Algebra, Intro to Python

Full Time User Experience Design Program, RED Academy Jul - Sept '17

Bsc, Cognitive Systems, Cognition and Brain Opt, UBC Vancouver, GPA: 3.5/4.33 May '17
Intro to Programming (Racket), Models of Computation, Computers & Society, Symbolic logic, Metatheory & Computability, Induction decision & Game theory, Calculus 1, 2 & 3, Physics 1 & 2

LANGUAGES AND TECHNOLOGIES

Languages: Java, C, Python

IDE software and tools: Git, IntelliJ, Pycharm, VSCode, Vim, JUnit, Maven, VirtualBox, gdb

Operating Systems: Mac OS, Linux (Ubuntu), Windows

Design Software: Sketch, Invision, Marvel

PROJECTS

Distributed movie index and search engine (in C) Mar - Apr '19

- Crawled ~50 files containing information on 5M movies.
- Built a compact multi-layer index over the dataset by title, type, year, genre and keywords.
- Persisted this index on the filesystem to support large indices and concurrent reads.
- Built a query processor that answered queries in $O(n)$ runtime (n : # results).
- Built a multi-threaded server using sockets to answer search queries.
- Built an interactive CLI to answer movie queries.

Project Intercept: Disrupting sex trafficking through tech Jun '17 - Apr '18

- Started a user-focused design process at an early stage of a massive platform to disrupt sex trafficking at the local and national levels.
- Interviewed users at Seattle-based NGOs, came up with features to solve their problems, prepared mocks and presented to the broader engineering team. Most of these features are now live in production.
- Platform has won several awards and was presented at dozens of national conferences, as well as to the Microsoft CEO and EVPs.

ADDITIONAL EXPERIENCE & AWARDS

Top 15% of UBC Science Winter 2012 class, Golden Key Honors Society Nov '13

Co-president, UBC Golden Key Honors Society Jul - Nov '16
Facilitated and planned chapter executive events and student opportunities.

Distress Volunteer, Crisis Intervention & Suicide Prevention Centre of BC Sept '13 - Jun '16
Empowered clients to meet their own needs via active listening on the phone and online.