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

RELEVANT EXPERIENCE

Teaching Assistant, Discrete Math, *Northeastern University*　　*Expected start Sept '19*

Secure Message Verification via RSA Digital Signatures　　*Aug '19*
• Implemented RSA key-pair generation for clients in a simulated banking system.
• Implemented a message signing and verification layer for secure client-server communication.
Java, IntelliJ, JUnit, Maven, Git, Mac OS

Distributed movie index and search engine　　*Mar - Apr '19*
• Crawled ~50 files containing information on 5M movies and built a compact multi-layer index over the dataset.
• Built a query processor that answered queries in $O(n)$ runtime (n: # results).
• Built an interactive CLI and a multi-threaded server using sockets to answer movie and search queries.
C, Vim, VirtualBox, gdb, Git, Linux (Ubuntu)

Project Intercept: Disrupting sex trafficking through tech　　*Jun '17 - Apr '18*
• Started a user-focused design process at an early stage on this massive platform 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. Was presented at dozens of national conferences and to Microsoft CEO and EVPs.
Sketch, Invision, Mac OS

AWARDS

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

ADDITIONAL EXPERIENCE

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.