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), Databases, Information Retrieval, Web development, Parallel Data Processing

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 CS (Racket), Models of Comp, Computers & Society, Symbolic logic, Metatheory & Computability, Game theory

LANGUAGES AND TECHNOLOGIES

Languages: Java, C, Python, SQL, HTML (***Learning***: *Javascript, CSS*)
Tools & Frameworks: Git, JUnit, Maven, VirtualBox, gdb, MySQL, Clover ETL (***Learning***: *Angular JS, React, MongoDB*)
Operating Systems: Mac OS, Linux (Ubuntu), Windows
Design Software: Sketch, Invision, Marvel

RELEVANT EXPERIENCE

Teaching Assistant, *Northeastern University*   *Sept '19 - current*
CS5002 Discrete Math | CS5004 OOD in Java

Web-Based Search Engine   *Sept '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

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

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)

Personal website: *https://monicaibrahim.com*   *Nov '17*
HTML, CSS, Javascript, VSCode, Git

Project Intercept: Disrupting Sex Trafficking through Tech   *Jun '17 - Apr '18*
• Started a user-focused design process at an early stage of this project. Interviewed users and designed prototypes.
• Platform has won several awards. Was presented at dozens of national conferences and to Microsoft CEO and EVPs.
Sketch, Invision

AWARDS & MORE

Top 15% of UBC Science Winter 2012 class, *Golden Key Honors Society*   *Nov '13*
Co-president, *UBC Golden Key Honors Society*   *Jul - Nov '16*