MONICA IBRAHIM

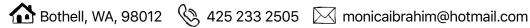🏠 Bothell, WA, 98012 📞 425 233 2505 ✉ monicaibrahim@hotmail.com

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 (SQL), Info Retrieval

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

LANGUAGES AND TECHNOLOGIES

Languages: Java, C, Python (***Learning****: HTML, CSS, Javascript, Typescript, SQL*)
Tools and Frameworks: Git, IntelliJ, Pycharm, VSCode, Vim, JUnit, Maven, VirtualBox, gdb, (***Learning****: Angular*)
Operating Systems: Mac OS, Linux (Ubuntu), Windows
Design Software: Sketch, Invision, Marvel

RELEVANT EXPERIENCE

Teaching Assistant, Discrete Math, *Northeastern University*   *Sept '19 - present*

Graph Based Web Crawler   *Sept '19*
• Wrote a program to crawl Wikipedia pages with throttling support.
• Implemented custom HTML parsing logic for finding neighbouring nodes.
Python, Regex, HTML, VSCode

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

Mar - Apr '19
Distributed Movie Index and Search Engine
• 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 multi-threaded 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 on this massive platform at the local and national levels.
• Interviewed users at Seattle-based NGOs, used research to design mock-ups and presented to broader engineering team.
• Platform has won several awards. Was presented at dozens of national conferences and to Microsoft CEO and EVPs.
Sketch, Invision, Mac OS

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*
Distress Volunteer, *Crisis Intervention & Suicide Prevention Centre of BC*   *Sept '13 - Jun '16*