Khalil Haji

97 Saint Stephen Street Unit 8, Boston, MA, 02115 ♦ haji.k@northeastern.edu ♦ 617-763-8744
github.com/khalilhaji | Available: July – December 2020

EDUCATION

Northeastern University, Boston, MA   September 2017 – Present
Khoury College of Computer Sciences, *University Honors Program*
Candidate for Bachelor of Science in Computer Science   Expected May 2022

Honors: **GPA: 3.78/4.00**, Dean's List
Relevant Courses: Object-Oriented Design, Algorithms and Data Structures, Computer Systems, Networks, Discrete Structures, Fundamentals of Computer Science, Foundations of Cybersecurity

Leadership: Vice President of Progressive Student Alliance, Council Member for Explore Boston Living Learning Community

COMPUTER KNOWLEDGE

Languages: *Proficient*: Java, JavaScript, Node.js/Express, Racket *Familiar with:* Python, C, R
Operating Systems: Linux (Arch, Debian/Ubuntu), macOS, Windows
Software: Git, IntelliJ IDEA, Emacs, Sublime Text

EXPERIENCE

Teaching Assistant, **Khoury College of Computer Sciences**, London, UK   July – December 2019
- Drafted homework and lab assignments, held weekly office hours, and ran labs to help students understand the course concepts and complete weekly assignments.
- Graded student homework submissions and provided them with feedback.

Software Development Intern, **PranaGEO,** Bodrum, Turkey   October 2016 – August 2017
- Co-developed a dashboard for farmers to predict frost events for better crop management using Shiny.
- Implemented unit tests for the open source R package geoSpectRal, using the *testthat* unit testing library.
- Developed a search engine for package documentation from The Comprehensive R Archive Network (CRAN) using node.js and the Neo4j graph database including the Cypher Graph Language.
- Designed and implemented the sign-up process to create a PranaGEO account used for all PranaGEO services.
- Improved knowledge of HTML, CSS, Markdown, and RMarkdown and used these to develop documentation.

Emergency Response Coordinator, **Bodrum Humanity,** Bodrum, Turkey   October 2016 – June 2017
- Managed the organization's emergency hotline and triaged calls.
- Coordinated donation deliveries and volunteered at fundraising events.

PROJECTS

EZAnimator *(Java)*
- Designed an animation player and editor using object-oriented principles.
- Implemented multiple front-ends, including Java Swing, SVG output, and a textual description of the animation.

Seam Carving *(Java)*
- Implemented the seam carving algorithm for content-aware image resizing.
- Utilized a dynamic programming approach to implement the algorithm.

Nokta *(Shell)*
- Created a set of configuration files for Arch Linux and organized them using GNU Stow.
- Developed a script to install all desired packages and set up the system with the configuration files.
- Designed a GTK theme based on the gruvbox color scheme.

INTERESTS

Biking, Travel, Public Transportation, Piano, Social Justice