

Mehek Khandelwal

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EDUCATION

Wellesley College, Bachelor's in Computer Science	2018-2022
Massachusetts Institute of Technology, Cross-Registered Student	2019-2022

SKILLS & RELEVANT COURSEWORK

Skills: Python, Java, iOS Development (Swift, Xcode), Website Development (HTML, CSS), nano, Git

Courses: Data Structures, Combinatorics and Graph Theory, Programming 101

WORK EXPERIENCE

Transgender Security&Privacy Research Project, Wellesley College, Wellesley, MA <i>Research Assistant</i>	<i>Jun-Jul 2019</i>
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- Developed robust Qualtrics surveys using in-depth literature review on the trans cyber-security and -privacy issues; conducted surveys using MTurk.
- Performed survey data filtering, mining, and analysis, and generated summary outcomes using Python.

Cyber-Security Research Project, Wellesley College, Wellesley, MA <i>Research Assistant</i>	<i>Jan-Jun 2019</i>
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- Purpose: identify patterns in artifacts belonging to community code repositories like npm that indicate potentially malicious attributes.
- Mined npm skimdb metadata database to extract historical archive of quarantined package dependencies and identified/discovered factors that go into classifying a repo as malicious.
- Iteratively built scripts to extract metadata from 86k+ npm packages and identify/analyze package attributes such as dependencies, dependency change profile, etc. to highlight risks.
- Used Linux, Python, IMB Cloudant, and Apache CouchDB.

PROJECTS

Affirmations Rater iOS App	<i>Aug 2019</i>
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- Pioneered app that determines most mood-boosting affirmations based on user-provided catalog and ratings, and through a dynamic self-learning system.
- App receives user-defined affirmations and prompts user for mood check-ins based on notification schedule.
- App stores affirmation and rating data to perform machine learning analysis that identifies language-based factors influencing mood-boost effectiveness and is later used to assist users in composing affirmations.
- Programmed in Swift using Xcode IDE.

Recipe Manager iOS App	<i>Jun 2019</i>
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- Designed a digital cookbook App that allows user to create, store in the cloud, search, and retrieve recipes.
- Programmed in Swift using Xcode IDE.

Child Linguistic Analysis: Data Structures Project	<i>Apr 2019-May 2019</i>
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- Designed a tool for parents to get a diagnostic understanding of their child's linguistic capabilities.
- Transferred three-dimensional data points from large csv file into hash tables.
- Designed linked binary tree to give personalized advice for child vocabulary growth.
- Programmed in Java.