CHRISTOPHER MCKENNA

Permanent Address: 3 Windemere Drive, Andover MA 01810
School Address: 3 Oswald Street, Apt #3, Boston MA 02120
Contact Information: mckenna.chr@husky.neu.edu | 617-459-8410
Availability: July 1 – December 31, 2017 through the Northeastern Co-op Program
Portfolio: mckennac4.github.io

EDUCATION

Northeastern University, Boston, MA
September 2014 – May 2019
GPA: 3.97
Candidate for Bachelor of Science in Chemical Engineering; Minor in Computer Science

Computer Science Coursework: Object Oriented Design, Algorithms and Data Structures, Fundamentals of Computer Science I, II.
Other Relevant Coursework: Numerical Analysis (Graduate), Differential Equations and Linear Algebra, Kinetics, Thermodynamics, Transport Processes, Organic Chemistry, Modern Physics, Engineering Problem Solving and Computation.
Honors/Awards: Dean's Scholarship, Dean's List.

PROGRAMMING SKILLS

Most comfortable with Python
Work experience with HTML, CSS, JavaScript
Classroom & independent exposure to Java, iOS programming in Swift, C++, MATLAB

WORK EXPERIENCE

FirstFuel Software, Lexington, MA
Energy Analyst (Co-op)
July 2016 – December 2016

Created the web application that energy engineers use to generate energy savings predictions and visualizations for a majority of FirstFuel's production audits.
- Backend: Python (Flask, numpy, pandas), Linux, Apache/mod_wsgi, Amazon S3
- Frontend: HTML, CSS (Bootstrap), Javascript (jQuery, Highcharts)

Held meetings to propose and present new models for predicting savings, brainstormed with energy engineers to tinker new/existing models, and codified these models into the Python engine that powers savings calculations.

Created an interactive data visualization dashboard being displayed within the FirstFuel office that shows live customer usage statistics.

PERSONAL PROJECTS

CloudCart, iOS App Available on the Apple App Store.
https://itunes.apple.com/us/app/cloudcart/id1035509564

Mobile application built using Swift and the Parse SDK. Users register a CloudCart account to create and share lists with others. Multiple users on separate devices can edit the same list, which updates automatically on each user's device. Changes made while off the network send updates to the backend when connection is restored.

AVIS Website, Website Created for the Andover Village Improvement Society
https://github.com/avisandover/avis-website

Static, responsive website created for AVIS, a 501(c)(3) non-profit in Andover, MA dedicated to land conservation. Can be viewed at newavisandover.org.