

CHRISTOPHER MCKENNA

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Portfolio: czmckenna.github.io

EDUCATION | **Northeastern University**, Boston, MA

September 2014 – May 2019

GPA: 3.98

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.

Other Relevant Coursework: Numerical Analysis (Graduate), Differential Equations and Linear Algebra, Kinetics, Thermodynamics, Transport Processes, Organic Chemistry, Modern Physics, Engineering Problem Solving and Computation.

PROGRAMMING SKILLS | Professional experience with Java, Python, HTML, CSS, JavaScript Independent exposure to iOS programming in Swift, C++, MATLAB

WORK EXPERIENCE | **HubSpot**, Cambridge, MA Software Engineering Co-op July 2017 – Present

FirstFuel Software, Lexington, MA

Energy Analyst Co-op

July 2016 – December 2016

Developed a web application used by energy engineers to make detailed predictions and visualizations of the energy savings potential in commercial buildings.

- 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.

Developed an interactive data visualization dashboard 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 avisandover.org.