

Jacob Spence

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Education

Carnegie Mellon University

Bachelor of Science in Logic & Computation

May 2020

Selected Courses: Computer Systems, Digital Architecture, Software Construction, Statistics, Probability, Machine Learning, Formal Logic, Theoretical Comp Sci

Experience

Maven Machines

Software Intern Summer 2018

Worked alongside full-time engineers developing management technologies for trucking companies. Designed, coded, and shipped several quality of life improvements to their android app. Acquainted myself with agile, scrum, and life at a startup.

Ultraworking

Web Dev Contractor 2018-2019

Coordinated remotely to prototype proof-of-concept features for a javascript-mithril web app. Experimented with creative ways to produce dynamic content with no backend.

CMU Academic Development

Computer Systems Tutor 2018-2019

Theoretical Comp Sci Tutor 2019

Projects

Energy Tracker App

Alarm prompts you hourly to report how much energy you have. Exports all data to csv for use with quantified self style research. Written in Java.

[Google Play Store](#)

Tartan Hacks 2019 "Friz"

Partially implimented p2p messaging app that uses reverse-Tor packets to anonymize users and disconnect their IP address from their identity. Won "Most Ambitious Failure"

Alice in Canvas Land

Web based puzzle game that requires physically exploring CMU campus to crack the code. Levels designed in Google Sheets and animated with HTML Canvas. [jecneps/alice-puzzle](#)

Youtube Utility

Desktop electron app to streamline getting music from youtube. Allows bulk downloads from playlists, and bulk editing of metadata.

[jecneps/youtube-downloader](#)

ML Playground

Interactive environment to play with the K-Nearest Neighbors algorithm. Lets you draw the digits to train and test on, allowing you to explore edge cases. Built in pygame. [jecneps/ML-PlayGround](#)

Misc

Eagle Scout
200-hour registered Yoga Teacher
Professional Close-up Magician

Technical Proficiencies



Python



C



Kotlin



Mithril



Git



Javascript