

# EVAN NEMETZ

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## EDUCATION

### BS, Computer Science

Rutgers University

Expected Graduation: Jan 2021

- Relevant coursework: Software Engineering, Computer Security, Intro to Artificial Intelligence, Software Methodology, Internet Technology, Design and Analysis of Algorithms, Principles of Programming Languages

### AS, Computer Science

Bergen Community College

Graduated 2018

- Relevant Coursework: Object Oriented Programming, Advanced Programming Concepts, Data Structures and Algorithms

## PROJECTS

### Websight

Swift

- Designed and built an iOS app using Swift that lets a user scan text with the camera and give shortcuts based on the data that was scanned.
- User is able to make phone calls, pull up addresses in Maps, start an email, and open URLs in Safari all without having to type.
- Used Apple Vision framework for OCR.
- Currently used by over 100 concurrent users with a five-star rating in the App Store.

### RPiBell

Python, Java

- Product owner of contactless doorbell system to limit contact with rarely sanitized surfaces during the pandemic.
- User is able to raise hand to ring doorbell, which when detected by CNN algorithm, sends notification to client Android app.
- Client app built with Java on Android and backend Python runs on a Raspberry Pi with camera module.
- Used Firebase Cloud Messaging to send notifications to the client Android app and Flask to view a livestream of the camera from the client app.

### HueDeck

Python, HTML, CSS, JavaScript

- Created a custom dashboard to control Philips Hue smart lights using the Philips Hue API so that users can control their lights from the convenience of their desktop.
- Used HTML, CSS, and Bootstrap 4 to create frontend.
- Used Python for backend and JavaScript to connect to the frontend using eel and the phue library.

### A\* Maze Search

Python

- Developed a program that used multiple variations of A\* search to quickly solve randomly generated mazes with random start and end points.
- Visualized maze solutions using the matplotlib library.

## WORK EXPERIENCE

### Library Assistant

Ridgewood Public Library

Feb 2020 - Present

- Optimized website design for mobile and performed bug fixes to improve the website experience for patrons during the pandemic.
- Provide quality service and support for Ridgewood Library patrons by creating a welcoming space for the community.

## SKILLS

- Java, Python, Swift, C++, HTML, CSS, Agile