

# Neeharika Voety

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## EDUCATION

### Carnegie Mellon University (Pittsburgh, PA)

BS. In Electrical and Computer Engineering

2018-2022

- GPA: 3.75 / 4.0
- Relevant Coursework: *Principles of Imperative Computation* (15-122), *Introduction to Computer Systems* (15-213), *Physical Computing* (60-223), *Introduction to Computer Security* (18-330), *Structure and Design of Digital Systems* (18-240), *Distributed Systems* (15-440), *Introduction to Machine Learning* (10-301)

## EMPLOYMENT

### Software Engineering Intern - Niantic, Inc.

MAY-AUGUST 2020

- Worked with Pokémon Go's Client Engineering team to develop new gameplay features in a large-scale, object oriented project in Unity using C# scripts
- Developed and delivered key features to help a company-wide goal of mapping the world for AR technology, as well as enhancements to the existing evolution system
- Incorporated numerous design patterns such as object pooling, subject-observer event handling, and state machines
- Development done with Agile principles such as participating in sprints, organizing with Kanban boards, writing test plans, and using Git for source code management and continuous integration

### Software Engineering Intern - Platina Systems

JUNE-AUGUST 2019

- Built an end-to-end support tool that collects and displays data from customer's machines
- Used Python to collect crucial information and store in Amazon S3, Ansible to efficiently automate and scale the collection process, and Golang to spin up a web server that concurrently processes and beautifully displays data in the browser

## PROJECTS

### Active Alarm

2019

- An alarm clock that turns off in response to scanning certain location tags, core components include RFID sensor/tags and an Arduino, built in *Physical Computing* (60-223)

### Amazon Echo Controlled Door-Intercom System

2017

- A functioning door-intercom system built with a Raspberry Pi, Particle Photon IoT Micro-controller, external speakers, microphone, and an Amazon Alexa
- Written in Javascript (Node.js as backend) with AWS Lambda, IoT, DynamoDB, Alexa Skill Kit, and IBM Watson

## RESEARCH EXPERIENCE

### Social Media and Sentiment Analysis Research Project

JUNE-AUGUST 2017

With Professor Eric Friedman of UC Berkeley

- Evaluated how conversations discussing controversial topics on Twitter converged to a few opinions using network theory and natural language processing
- Tools: Python's Natural Language Toolkit, Sentiment Analysis Libraries, Twitter API

## SKILLS

HTML, CSS, JS, NODE.JS, MONGODB  
UNITY, C#  
PYTHON, GO, JAVA, C

ANSIBLE, LINUX/UNIX, AWS  
GIT, DATA STRUCTURES  
ARDUINO/RASPBERRY PI

## ACTIVITIES

### TEDxCMU Head of Innovation (2020), Innovation Board Member (2019)

SINCE 2019

- Design and build useful internal tools for the TEDxCMU team and spearhead year-long creative projects for audience engagement on the day of the main event
- Past projects: Programmable giant LED matrix
- Curate local talent and innovators in Pittsburgh for the annual Innovation Expo