

Emmie Ohnuki

EDUCATION

University of Massachusetts Amherst — B.S. Computer Science with Mathematical Computation and Computational Linguistics Minor

SEPTEMBER 2019 - MAY 2022

- GPA: 3.98
- Dean's List: Fall 2019, Spring 2020, Fall 2020, Spring 2021

WORK EXPERIENCE

Asana, Remote — Software Engineering Intern

MAY 2021 - AUGUST 2021

- Integrated **Cloudwatch Metric Streams** with **AWS Kinesis Firehose** to decrease latency of sending metrics from AWS to Datadog from 15 minutes to < 1 minute.
- Designed and implemented a system to automatically sync Datadog resources to Terraform code with Github pull requests
 - Maintains source of truth in code and introduces version control into the workflow of using 3rd party applications.
 - Utilized **Datadog API**, **Terraform**, **Terraformer**, **Asana API**, and **Python** to build scripts to pull changes and create pull requests and Asana tasks, which are periodically run on **AWS Lambda** functions.
 - Implemented **Github actions** to respond to merges and closes to Datadog related changes in repository and pushes changes to Datadog.
 - Created design document and held meetings with various Datadog stakeholders across Asana infrastructure teams to discuss ideas, wants, and needs for the new system.

Google, Remote — STEP Intern

MAY 2020 - AUGUST 2020

- Collaborated with 3 interns to create full stack, dynamic **React** app that allows users to construct and visualize optimal travel itineraries and suggests destinations based on user preferences.
 - Managed data flow between React components to allow for dynamic rendering and interaction across the different components.
 - Leveraged **Maps API**, **Places API**, and **Directions API** to visualize itinerary items on responsive map and query suggestions and optimized routes using our custom metric and various external factors.
 - Took part in writing of design document, prototyping, code reviews, and agile development workflow.
- Networked with Googlers involved in NLP/ML and research and participated in virtual talks, workshops, and community events with interns.

Code Wiz, Westford, MA — Programming Instructor

JANUARY 2019 - APRIL 2020

- Structured curriculum and taught Java, Mobile Development, and animations using Scratch, Codesters(Python), Tynker, LEGO Robotics, Java, Processing, and Thunkable.
- Taught about 25 regular students and multiple summer camps with 8-12 kids each week.

PROJECTS

Questions — AI that answer questions.

Traffic — A convolutional neural network with **Tensorflow** that classifies road signs based on an image using **GTSRB** dataset.

Fetch — Customers can scan in-store items and add to virtual shopping cart for purchase.

- Built iOS app using **Swift** and **Firebase**, leveraging **ARKit 2.0** for 3D object detection and tracking.

Cerberus — Smart home security device with paired iOS and web app.

- Developed iOS app in **Swift** to read and control Arduino device through **Firebase**.

Koso — Created and launched project management iOS application using **Swift** at **Make School Summer Academy**.

- Allows users to breakdown projects into agendas, todo lists, and notes while having them all displayed in one interface. Downloaded by 500+ people on the App Store.

INFO

Boxborough, MA

(978) 289-0439

emaohn@gmail.com

linkedin.com/in/emmieohnuki

github.com/emaohn

emaohn.github.io/my-website/

PROGRAMMING LANGUAGES

Java

Swift

Javascript

Python

HTML

CSS

FRAMEWORKS

React.js

Bootstrap

Material UI

TECHNOLOGIES

Git (GitHub)

Google AppEngine

Xcode

Firebase

AWS

Datadog

Terraform

Github Actions

RELEVANT COURSES

Data Structures

Discrete Math

Programming Methodology

Calculus 2

Linear Algebra

Artificial Intelligence

Intro Machine Learning

Computer Vision

HACKATHON PROJECTS

MIT Blueprint 2019 — First place winner with **Fetch**.

HackWPI 2019 — Winner of best hardware hack, best UI, and best usage of Cloud with **Cerberus**. 30+ teams.

Tech Together Boston 2019 — Winner of best environmental sustainability waste reduction hack with **Shawa**.

MAHacks 2018 — 2nd place with **Auxilia**.

