

Emmie Ohnuki

EDUCATION

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

SEPTEMBER 2019 - MAY 2022

- GPA: 4.0
- Dean's List: Fall 2019, Spring 2020

WORK EXPERIENCE

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.

THOLYL Technologies — Full Stack Software Engineer

JULY 2019 - DECEMBER 2019

- Created front-end web interface using **HTML/CSS/Bootstrap** for stealth mode startup and contributed to user auth, form validation, and databasing with **Django/PostgreSQL**.

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.

EDUCATIONAL EXPERIENCE

Google Virtual CSSI-Coursera — Student

JULY 2019 - AUGUST 2019

- Earned the certificate for Data Structures course from UCSD Coursera, learning alongside other selected high school seniors from around the world.

Make School Summer Academy, San Francisco, CA — iOS Developer Student

JULY 2018 - AUGUST 2018

- Built various mini projects from a notes app to an Instagram clone that leveraged a plethora of technologies such as Firebase, APIs/JSONs, Core Data, and Github using Swift.
- Developed and launched Koso, a task manager app on the App Store.
 - Allows users to create and save projects into agendas, todo lists, and notes in one simple UI.

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**.

KeepPrivate — iOS app to provide users with daily tips on maintaining online privacy. Downloaded by 150+ people on App Store.

- Created local notification system based on frequency preferences saved to user defaults.

INFO

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PROGRAMMING LANGUAGES

Java

Swift

Javascript

Python

HTML

CSS

FRAMEWORKS

React.js

Bootstrap

Material UI

TECHNOLOGIES

Git (GitHub)

Google AppEngine

Xcode

Firebase

RELEVANT COURSES

Data Structures

Discrete Math

Programming Methodology

Calculus 2

Linear Algebra

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**.

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

LANGUAGES

English (native)

Japanese (conversational)

Chinese (conversational)

French (high school)