

Elizabeth Louie

elouie2@andrew.cmu.edu - Pittsburgh, PA, Herndon, VA - (703) 937-7089
www.github.com/elouiestudent - elizabethlouie.com - www.linkedin.com/in/elizabethlouie

Education

Carnegie Mellon University

Bachelor of Science in Computer Science, GPA: 3.96

December 2022
Pittsburgh, PA

Relevant Coursework

Machine Learning with Large Datasets
Automated Bug Catching
Algorithm Design and Analysis
Introduction to Deep Learning
Introduction to Computer Systems
Introduction to Machine Learning

Parallel and Sequential Data Structures and Algorithms
Principles of Functional Programming
Principles of Imperative Computation
Artificial Intelligence: Representation and Problem Solving

Work Experience

Meta

Software Engineer Intern

May 2022 – Aug 2022
Menlo Park, CA

- Modularized and introduced text embeddings to the charity search model, which is used in 60% of fundraiser creation flows
- Improved recall at 90% precision of personal fundraiser review model by > 10% for each model class

Amazon

Software Development Engineer Intern

May 2021 – Aug 2021
Seattle, WA

- Built the curated colors widget that displays paint palettes to customers on [Amazon Paint Finder](#)
- Designed and implemented an algorithm to extract trending color palettes from interior room images using Amazon SageMaker and AWS Lambda to be used in the curated colors feature

Mobile Commerce Lab

Research Intern

May 2020 – Present
Pittsburgh, PA

- Architected, designed, and implemented notifications for the [IoT Assistant App](#) using background location tracking and geofences with Flutter

Human-Computer Interaction Institute

Research Intern

Jan 2020 – May 2020
Pittsburgh, PA

- Interpreted data from r/AndroidDev through building machine learning models with the Snorkel API to identify privacy/security-related discussion and conduct qualitative/quantitative analysis
- Second author of paper accepted to CSCW 2020: ***How Developers Talk About Personal Data and What it Means for User Privacy: A Case Study of a Developer Forum on Reddit***

Projects

CMU Lost and Found Website Tech Lead (MERN Stack)

Sep 2020 – Present

- Built admin-side portion of website where CMU admin can post lost and found items for users to view.

Senior Research Project (Java, Android SDK)

Aug 2018 – May 2019

- Developed an Android application for users with motor disabilities that uses the front camera to read head and eye movements to manipulate a cursor on the screen and control the phone.

HooHacks – The Ultimate Just A Bill Experience (VR, JavaScript, HTML, CSS)

Mar 2019

- Lead a team of 4 to build VR application to teach children how a bill becomes a law and implemented [website](#) to quiz users after simulation and evaluate frequency of wrong answers using real-time histograms.
- Won **Best Art/Gaming Hack** out of ~200 teams.

HackUVA – EyeAlert (Swift, SafeTrek API)

Mar 2018

- Collaborated in team of 4 to create an [iOS app](#) that reads eye winks and smiles to call for different emergency services.
- Won second in **Best Use of SafeTrek API** out of ~200 teams

Skills

Programming Languages

Python, Java, C, SML, Dart, JavaScript, JSP, HTML, CSS

Frameworks & Technologies

Flutter, React, Coral, MVC Pattern, Android SDK, Git, VSCode, Android Studio, Vim

Activities

Artificial Intelligence: Representation and Problem Solving TA, CMU Club Swimming, CMU ScottyLabs