SAM LEE

https://github.com/lchsam

Education

UNIVERSITY OF MASSACHUSETTS AMHERST

B.S. COMPUTER SCIENCE Graduation: May 2020

Overall GPA: 3.8/4.0 Major GPA: 3.8/4.0

Courses:

Programming Languages, Operating Systems, Vision, AI, NLP, Networks, Data Visualization, Databases

Work Experience

UNDERGRADUATE RESEARCH ASSISTANT

May 2018 - Sept. 2018

UMass Amherst

UMass Amherst

Amherst, MA

- Collaborated with two UMass Amherst professors to revise a Programming Methodology course, CS220
- Developed an online IDE and EJS (explained in Projects), in use by every UMass Computer Science student
- Utilized Travis Continuous Integration Testing for development on Github
- Developed the grading infrastructure to be used during the semester, uses Gradescope + Node.js

TEACHING ASSISTANT IN CS220

Sept. 2018 - May 2019

Amherst, MA

- Collaborated with six other teaching assistants to grade homework, quizzes, and exams
- Assisted instructor by answering questions from many students in an online forum
- · Maintained the online editor and the Autograder infrastructure used in this course by fixing many bugs both in frontend (React TypeScript), backend (Node.js Google Cloud Functions) and the autograder backend (Node.js).

SOFTWARE ENGINEERING INTERN

June 2019 - August 2019

Covered Security, Inc.

Boston, MA

- Worked on the development of primary consumer-facing web app using AWS and Test-Driven, Agile Development.
- Streamlined client onboarding by creating config scripts using TypeScript, reducing client onboarding time
- Developed account reset feature in web application using Angular and Firebase.

Projects

OCELOT IDE AND ELEMENTARYJS

August 2018 - Sept. 2018

UMass Amherst

- https://umass-compsci220.aithub.io/Ocelot/
- Developed the frontend (TypeScript React + RxJS) and backend (Google Cloud Functions) of a web IDE.
- Utilized Google Cloud Functions, Storage, and Datastore for backend, and React with Material UI for frontend.
- Built ElementaryJS with the Babel.js transpiler, enforces good coding practice with static and dynamic checks

CLASS I/O

Personal Project

PANORAMIC STITCHING

LANGUAGE VERIFIER

• A Facebook bot that helps students find open courses at UMass Amherst. Used Matlab to stitch multiple parts of an image to create a panorama

CS370: Computer Vision, Spring 2018

CS497P: Programming languages, F19 Developed verifier with OCaml

• Uses Python Flask + Selenium

• Uses feature extraction + RANSAC

using Microsoft's SMT Solver, Z3 to verify assertions and loop invariants

Honors and Awards

DEAN'S LIST

2016 - Present Completed each

semester with 3.5

Received course citation for outstanding performance in

CS230: Computer Systems

CS230 COURSE CITATION OUTSTANDING UCA AWARD SENIOR LEADERSHIP AWARD

Exemplary efforts as Undergraduate Course Assistant leadership and service to the during Fall 2018

Demonstrated outstanding **UMass Amherst community**

GPA or above. Languages

Languages I love

TypeScript/JavaScript, Python, Java, HTML5, CSS

Languages I know

C/C++, OCaml, PostgreSQL

Languages I speak

English (Fluent), Cantonese (Intermediate), Japanese (Novice), Mandarin (Novice)

Tools + Environment + Libraries

Tools/Envs I love

Git, GCP, Node.js, React, Linux Ubuntu, Adobe Suite, VSCode

Tools/Envs I know

Make, Vim, Vagrant, Docker, PyCharm, IDEA