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Helen Tremarche

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As a Software Developer, I have helped the College of the Holy Cross meet the challenging and varied demands of the Covid-19 Pandemic. I am an adaptive problem solver, a disciplined self-learner, and a willing team player hoping to put my skills to use on your next project.

▪ Skills:

I have a robust knowledge of the following languages, frameworks, and tools:
React, Node.js, Express, HTML, CSS, JavaScript, Python, Ruby on Rails, Java, C/C++, MySQL, MongoDB, AWS (DynamoDB, S3, EC2, ECS, Fargate, Lambda, IAM), Docker, Git

▪ Employment:

College of the Holy Cross — 2019 – Present

1 College St. Worcester, MA 01610 (508) 793 - 2011

Web Developer: Build and maintain full stack web apps, APIs, and process scripts to aid various college departments. Offer full user support of the various software and hardware projects I have been involved in.

▪ Selected Work:

HC Clear

In order to support Covid-19 policy compliance, we built a suite of applications to allow students and staff to submit a daily symptom checker, schedule tests, review test results, and submit vaccine and booster data. This information is then referenced at various swipe station checkpoints around campus to ensure that community members are compliant before entering certain facilities around campus. Specifically, I built the frontend application where users submit symptom checkers, schedule tests, upload vaccines data, the frontend application HR uses to review submitted data, the software for the swipe stations, as well as assembled and configured the swipe stations using Raspberry Pis.

Virtual Summer Gateways

For the last two years Holy Cross has elected to hold summer orientation for new students virtually using a web application which I built and manage. New students are provided a multiweek schedule of modules which contain videos, live webinars, and chatrooms which dynamically become active and available to the students as the schedule dictates.

Zoom Archiver

In the last couple years, a need occurred for us to develop a process to automatically archive certain staff members zoom recordings in a place outside of Zoom cloud storage. To accomplish this, I build a python program which bi-weekly checks to see if any new videos have been uploaded by these users and then transfers them into an AWS S3 Glacier bucket where they can be stored more cost effectively. This is a “serverless” process which deploys out of AWS via a Docker image into an ECS Cluster as a Fargate instance ensuring very simple use.

▪ Education:

San Francisco State University — GPA = 3.74 — 2015 - 2019

Major: Computer Science (major GPA = 3.70) **Minor:** Humanities (minor GPA = 3.95)