

# MICHAEL S MCNEILL

## Applied Mathematics & Computer Science Double Major

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in michaelsmcneill



## EXPERIENCE

### Software Development Intern

#### Cubicle Enterprises LLC

Oct 2018 – Feb 2019

Elmsford, NY

- Created a Python Flask REST API for a generative design platform contracted to a major manufacturing and licensing company.
- Extensively used git for version control.

### Teaching Assistant for Programming Abstractions

#### Stony Brook University

Jan 2020 – May 2020

Stony Brook, NY

- Conducted weekly recitation section for students, teaching concepts and examples from various programming languages.
- Worked directly with students during office hours to assist with understanding and completion of assignments.
- Created review materials for midterm and final exams.

## PERSONAL PROJECTS

### Grayscale Image Utility

C

February 2021

- Converts files to/from pgm, ascii and birp formats.
- Allowed for transformations on the binary decision diagrams underlying the birp format.

### Rubik's Cube Scramble Viewer

Python

October 2018

- Developed Rubik's Cube software which maps representations of turns to a digital abstraction with perfect accuracy

## HACKATHONS

### BedsideManner

JavaScript/HTML

September 2020

- Offers hospital patients a more considerate, hospitable interactions with doctors, nurses, and other workers that visit them during their treatment.
- The website provides them with logistical information, as well as a photo and some facts about the worker in order to build a more personal connection.
- Worked on the client side JavaScript, allowing for communication between the front and back end.

## LANGUAGES & SKILLS

C

Java

Python

JavaScript

OCaml

git

bash

mySQL

Flask

CSS

## EDUCATION

### B.S. in Applied Mathematics & Computer Science

#### Stony Brook University

Aug 2018 – May 2023

3.92 Cumulative GPA

#### Relevant Courses

- Analysis of Algorithms
- Computational Geometry
- Computer Networks
- Data Structures
- Differential Equations
- Fundamentals of Software Development
- Linear Algebra
- Multivariate Calculus
- System Fundamentals II

## REFERENCES

### Christopher Tran

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AWS Software Development Engineer