

MICHAEL S. MCNEILL

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📍 Stony Brook, NY

🌐 michaelsmcneill

EXPERIENCE

Research Assistantship

File Systems and Storage Lab

📅 June 2021 – Present

- Analyzed traces with multiple threads for the Re-Animator project.
- Created graphs using matplotlib for KML Technical Report FSL-21-02.
- Experimented with altering parameters for different IO schedulers across multiple workloads to determine optimal values and statistical differences.

Teaching Assistant

Stony Brook University

📅 Jan 2020 – May 2020, Jan 2022 – Present

- Conducted weekly recitation section for 30 students, teaching concepts and examples from various programming languages.
- Worked directly with students during office hours to assist with completion and comprehension of assignments.
- Created review materials for midterm and final exams.

Software Development Intern

Cubicle Enterprises LLC

📅 Oct 2018 – Feb 2019

- Created a Python Flask REST API for a generative design platform contracted to a major manufacturing and licensing company.

PROJECTS

Redistricting

React/Java-Spring

📅 Aug 2021 – Dec 2021

- Created a full stack web app which allows users to select 1 of 90 different candidate districtings, and improve population equality while preserving political attributes by moving census blocks.
- Primarily worked on the Spring back-end, client-server interaction and implementation of server algorithm to improve population equality.
- Collaborated with a group of 4 people for Capstone project, becoming the highest ranked team in the class.
- Wrote out detailed use cases and created UML class diagrams.

Grayscale Image Utility

C

📅 Feb 2021

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

EDUCATION

M.S. in Computer Science

Stony Brook University

📅 Aug 2021 – May 2023

Relevant Courses

- Analysis of Algorithms
- Computational Geometry

B.S. in Applied Mathematics & Computer Science

Stony Brook University

📅 Aug 2018 – May 2022

3.93 Cumulative GPA
Deans List

Relevant Courses

- Computer Networks
- Data Structures
- Differential Equations
- Software Engineering
- Linear Algebra
- Multivariate Calculus
- Operating Systems
- Operations Research
- System Fundamentals II

LANGUAGES

Java

Python

C

MIPS Assembly

OCaml

SKILLS

Linux

Git

LaTeX

Matplotlib

Spring

SQL

REFERENCES

Christopher Tran

@ 10x Genomics

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- Supervisor at Cubicle Enterprises LLC