HARRISON HUTTON

Software Engineer

@ harrisonhutton6@gmail.com **J** 585-704-2733 harrisonhutton.dev in harrison-hutton

EXPERIENCE

Senior Teaching Assistant

University at Buffalo

- Ö 08/2020 Present Amherst, NY
- · Supervised and motivated groups of 20 computer science students through weekly lab activities (250+ students total).

HarrisonHutton

· Communicated algorithms and complexity analysis ideas to classes of 25 students through weekly recitations (150+ students total).

Software Engineering Intern

Moog, Inc.

- East Aurora. NY
- · Adapted an open-source, ROS Ackermann-drive system to fit the automated steering needs of a pack mule vehicle.
- · Evolved a complex URDF Xacro description of this vehicle to allow for simulation using Rviz and Gazebo.

Tech Intern

M&T Tech (F500 Bank)

- Buffalo, NY
- · Developed and stylized a front-end document search platform using Angular and Bootstrap for internal banking services.
- · Saved M&T \$4 million per year going forward by producing a central user interface where employees can probe every internal document repository.

EDUCATION

MS in Computer Science and **Engineering**

University at Buffalo | 05/2024

BS in Computer Science, **Applied Math**

University at Buffalo | 05/2024

SKILLS

Python	OCaml Angular
Firebase	Github
Linux Terr	minal Unit Testing
Software Verification	
Leader	Open-Minded
Optimistic	

PROJECTS

GOMAD Admin Management System | Tech Lead

- 1 01/2023 Present
- · Designed a SaaS web app for my high school's music and drama booster board.
- Reduced web hosting costs by 94% by migrating from GoDaddy to Firebase Hosting and Authentication.
- · Purchased their domain and managed DNS settings to host a public website and an admin-only platform.
- · Utilized Angular and Firebase's Firestore Database to create a real-time, vendor-management service that automates tedious work such as sending emails and updating vendor balances.
- · Engaged a team of 3 developers in the execution of the vision for the app by holding consistent stand-up meetings and by following Agile principles.

Raft Distributed Consensus Protocol | School Project, CSE 586: Distributed Systems

Ö 02/2022

- · Implemented the fault-tolerant Raft Consensus Protocol in Go.
- · Applied message-passing techniques to handle leader elections, heartbeat detection, and data commitment via serialized protobuf messages.

Minor Prophets | School Project, CSE 442: Software Engineering

- **Ö** 08/2021 12/2021
- · Developed, in an Agile environment, a fast-paced, multiplayer, music-trivia game for my Software Engineering course.
- · Prioritized professional organization by writing user stories on Zenhub
- Integrated the Spotify API via the Spotipy Python library to randomly generate trivia questions based on current, popular music.