Michael C. Popp

Houston, Texas
Available on request
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Technical Skills

Programming Languages
- C & C++
- Python
- JavaScript

Technologies
- OpenMP, MPI & CUDA
- Proxmox (VMs & LXCs)
- React & Node.js

Tools
- GDB, Git, Neovim & Tmux
- Linux & Unix-like operating systems
- Jira & Github Projects

Projects

SimpleWM: A simple X11 window manager — Feb, 2022 - Current
- Currently reading through the Xlib manual & reference documentation
- Prototyping various designs with a preference toward tiling.
- Plans to be written primarily in C with a GPLv3 license

Personal website: A simple website that serves my webpages — Nov, 2021 – Current
- Serves HTML & CSS files related to my interest and hobbies
- Hosted via Digital Ocean and maintained through their CI/CD tools
- Written primarily in HTML & CSS to be accessible to most bandwidths & speeds

SDA Bot: Discord Bot with various commands and event-listeners for a friend's server — September, 2021
- Enables users to ping the bot, kick themselves from the server and various other actions
- Utilizes Discord's library, discord.py, that abstracts their APIs into simple function calls
- Deployed on a headless Raspberry Pi with sessions persisting via Tmux

Nuber: Group-based project to develop a API with functionality similar to the Uber App — March, 2021
- User stories developed and managed on Jira with weekly standups
- API endpoints are accessed by HTTP protocols and MongoDB to persist user data
- Utlizes Google's map API to find travel routes and retrieve various information

Namazon: A web-application designed to resemble an online store — December, 2020
- A simple web-store based on the MERN stack
- user accounts can be created and items in the store can be added to the user's cart
- MongoDB used to persist necessary information (e.g. accounts, cart items, store items)
- Deployed via Heroku-cli

Adaboost-based face detector: A program that looks through an image to detect faces — March, 2020
- Utilized an existing codebase as opposed to starting from scratch (MATLAB)
- Constructs a boosted classifer from 100 of the best performing weak classifiers
- Reduces false positives via additional techniques (e.g. histogram-based skin detections)

Education

Texas State University — San Marcos, Texas
B.S. Computer Science — December, 2021
GPA: 3.67

Merit-based CS Scholarship Recipient for 2021: Harold Sellars Endowment
Dean's List: Fall 2016, Sping 2017, Sping 2018, Spring 2019, Fall 2019, Sping 2020, Fall 2020, Fall 2021

Relevant Courses: Assembly Language, Object-Oriented Design and Implementation, Data Structures and Algorithms, Software Engineering, Computer Architecture, Operating Systems, Internet Software Development, Computer Vision, Parallel Programming & Computer System Security