

CHASE BOSMAN

ChaseBosman@yahoo.com

EDUCATION

University of Nevada, Reno

GPA: 3.23/4.0

Graduating May of 2021

- Bachelor of Science, Computer Science and Engineering with a Minor in Mathematics
- Courses: Design Patterns, Testing/Devops, Databases (MSSQL), Networks, Operating Systems, Image Processing

SKILLS

Languages:

- Python, C++, SQL, C, Java, HTML, CSS, JavaScript

Technologies/Other:

- Git/Github, Jenkins, Docker, Agile, Testing, Linux, HTTP/S, Networks

PROJECTS - AVAILABLE AT: [GITHUB.COM/CHASEBOSMAN](https://github.com/CHASEBOSMAN)

Carbon Footprint and Air Quality Monitor

Coded in Python alongside Jenkins using nose and xunit

- Developed an application that utilizes geolocation through a RESTful API to retrieve and display current air quality statistics and indexes
- Features a Jenkins pipeline to automate unit and integration tests, followed by a build stage
- Allows users to calculate and compare top contribution factors leading to a human's carbon footprint

Operating System Simulator

Coded in C++

- Simulation program involving a CPU processing and multithreading instructions through mutexes and semaphores
- Allows a user to select and run different scheduling algorithms corresponding to the configuration file
- Employs modern scheduling algorithms and operating system design techniques with memory management

Throughput Focused Network Routing

Coded in C++

- Network simulation with a custom routing algorithm to maximize throughput in a given network based on traffic flow
- Maximizes latency through actively adapting to node outages and changes within the network
- Utilizes nodes with valued edges to calculate and minimize the path length of data in transit

Restaurant Table and Ticket Manager

Coded in Python alongside SQLite

- GUI table and ticket manager allowing waiters keep track of and relay customers orders into production with ease
- Communication to an SQLite database to load menu items, as well as save user data and closed orders
- Uses socket communication and multithreading to relay a waiter's order to the kitchen and/or bar
- Features an interactive queue system to allow waiters to manipulate actively queued orders

WORK EXPERIENCE

BJ's Restaurant and Brewhouse

June 2018 - January 2020

Waiter

- Developed and required quick adaptation and a high level of communication skills
- Expected performance and organizational skills in a constantly changing environment

Brentwood Reprographics

July 2016 - August 2017

Production/Customer Service

- Full service reprographics company specializing in a wide range of high quality printing
- Responsibilities included application/hardware setup to produce architectural drawings and specifications