

CHASE BOSMAN

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EDUCATION

University of Nevada, Reno

Graduating May 2021

- BS, Computer Science and Engineering, minor in Mathematics
- Courses include: Design Patterns, Testing/Devops, Database Design, Networks

PROJECTS - GITHUB.COM/CHASEBOSMAN

Restaurant Table and Ticket Manager

- Developed a Python GUI app that allows waiters to manage and send table orders into production with ease
- Utilizes socket communication and multithreading to send orders to the kitchen and/or bar
- Communicates with AWS S3 to utilize membership files stored in JSON format
- Features an SQLite database to load menu items and save customer's closed out tabs

Operating System Simulator

- Implemented an OS simulator in C++, contains user supplied metadata processing with modern scheduling algorithms
- Employs different scheduling algorithms corresponding to the configuration file
- Memory management pertaining to multithreaded processes based on the user supplied metadata

Carbon Footprint and Air Quality Monitor

- Utilizes geolocation and a RESTful API in a Python GUI application to display air quality statistics
- Features a Jenkins pipeline to automate tests with nose and xUnit, followed by a build stage
- Allows users to calculate and compare top contribution factors leading to a human's carbon footprint

Chatroom Chatbot

github.com/svimanet/chatbot

- Open source project, features an automated and configurable Python IRC chatbot that processes messages and provides responses
- Contributions include error handling, automating readme updates, help commands, and more

Throughput Focused Network Routing

- Implemented a C++ network simulation featuring a custom routing algorithm to maximize throughput based on current network loads
- Minimizes latency through actively adapting to node outages and changes within the network
- Utilizes value graphs to find and minimize path length of data in transit

SKILLS

Languages:

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

Technologies/Other:

- Docker, Jenkins, AWS S3, Git, Testing, Linux, HTTP/S, Networks

WORK EXPERIENCE

BJ's Restaurant and Brewhouse

June 2018 - January 2020

Waiter

Brentwood Reprographics

July 2016 - August 2017

IT/Customer Service

- Responsibilities ranged from application and hardware setup to obtaining customer orders and producing architectural drawings/specifications