SREEHARSHA RAVEENDRA

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LinkedIn: linkedin.com/in/sreeharsha-rav **GitHub:** github.com/sreeharsha-rav **Portfolio:** sreeharsha-rav.me

EDUCATION

MS in Computer Engineering, *Arizona State University* December 2023
Coursework: Python, Computer Networks, Algorithms, Operating Systems GPA: 3.33/4.0

BTech in Electronics and Communications Engineering, *National Institute of Technology Karnataka* May 2020

TECHNICAL SKILLS

Proficient: Python (NumPy, SciPy, Matplotlib, Pandas), C , JavaScript (Node.js, Express.js, React.js, Mocha), SQL (PostgreSQL, SQLite), git
Exposure: MATLAB, HTML5, CSS, Unix, Linux, Azure, Docker, Kubernetes, Raspberry Pi, Arduino

PROJECT WORK

Expresso 2023
A comprehensive back-end CRUD (Create, Read, Update, Delete) project designed for a cafe.

- Developed Expresso, a powerful back-end CRUD project for a local cafe to efficiently manage menus, menu items, employees, and timesheets.
- Integrated intuitive timesheet management system for easy tracking of employee working hours.
- Conducted extensive testing, ensuring a stable and reliable back-end system.

Enhanced xv6 2023
Prototype xv6 Operating System with enhanced functionality giving a boost to system capability.

- Developed custom bootloader for xv6 OS kernel, developing an understanding of boot process within OS.
- Using on-demand paging through page faults, enhanced xv6 OS leading to optimal memory usage.
- Implemented user-level threading and scheduling policies for xv6 processes, enabling concurrent execution and efficient utilization of system resources.

Audio Synthesizer 2022
Neural Network based audio synthesizer to mix and produce custom audio clips.

- Researched and evaluated various methods of audio synthesis, including machine learning techniques.
- Duplicated state-of-art method for audio synthesis using GANSynth model and NSynth dataset.
- Developed custom script to customize tones, timbre, pitch of audio, increasing flexibility and range of system.

Heart Disease Predictor 2022
Machine learning based heart disease predictor based on real patient data.

- Conducted analysis of patient data, identifying key features that impact heart disease prediction accuracy.
- Utilized various machine learning models from sklearn to predict occurrences of heart disease.
- Built and trained ensemble learning model, combining models to achieve higher accuracy in disease prediction.

RELEVANT EXPERIENCE

DXC Technology | Software Engineer | Bengaluru, India July 2021 - July 2022

- Conducted exploratory data analysis using Python (Pandas) and SQL, identifying key trends and patterns in data.
- Designed and implemented data warehouse solution with Azure SQL Database, increasing analytics performance.
- Utilized Docker and Kubernetes to create automated and scalable data analysis pipeline, improving efficiency.

LEADERSHIP

Vice President of Marketing | IEEE Student Branch at ASU August 2022 – present

- Awarded “Board Member of the Year 2022-23”

Volunteer | IEEE January 2022
Executive Board Member | IET - NITK Student Chapter August 2018 – May 2020