Sanjana Yadav

sanjanayadav@utexas.edu | 469.486.0103

EDUCATION

UNIVERSITY OF TEXAS - AUSTIN
BS in Computer Science
Aug 2019 - May 2023 | Austin, TX
Turing Scholars Honors Program
Cum. GPA: 3.63 / 4.0

LINKS

Website:// sanjanayadav
Github:// sanjana879
LinkedIn:// sanjana-yadav-614367185

COURSEWORK

HONORS

Computer Architecture
Data Structure
Discrete Math
Introduction to CS Research

TRADITIONAL

Robot Learning
Probability
Multi-variable Calculus
Competitive Programming
Algorithms Design and Analysis Part 1 (Coursera)

CURRENTLY TAKING

Operating Systems (Honors)
Competitive Programming
Linear Algebra
Algorithms Design and Analysis Part 2 (Coursera)

SKILLS

PROGRAMMING

Proficient:
Java • C • Python (Django, nltk) • SQL • Verilog • HTML/CSS/Javascript • React • Firebase
Exposure:
C++ • x-86 Assembly • Flask • React Native

TECHNOLOGIES

Git • Terminal • JUnit • Mocha/Chai • GTKWave • LaTeX

EXPERIENCE

TURNUP | Software Engineering Intern
June 2020 – Aug 2020 |

- Creating and maintaining Firebase database for website
- Team Lead of Firebase backend team - Reviewed pull requests, organized assignments, planned meetings

PROJECTS

SPOTIFY EXTENSION NLP, Full Stack

- Built a full stack application that analyzes an album based on its audio with the Spotify API and lyrics with **Natural Language Processing**
- Sentiment analysis determines the level of positivity/negativity and 8 emotions in the album
- **Technologies Used:** Python (Django, nltk), HTML/CSS

UNIX SHELL Systems

- Created command-line shell that executes programs on a team of 4
- I added features including redirected input/output, command history, and tab completion
- **Technologies Used:** C, System calls

WEBCRAWLER Full Stack

- Built a web crawler and search engine that handles complex logical queries
- Developed algorithm that crawled 9000+ webpages in seconds and indexed them in HashMap saved to disc in under 16 mb
- **Technologies Used:** Java, JUnit Testing, HTML

SECURE YOUR FLIGHT Full Stack

- Constructed a web application in 25 hours on a team of 4 that used American Airlines and Google Maps API and crowd-sourced data on security wait times to calculate when to leave for the airport
- I created and integrated SQL database with back-end of application
- **Technologies Used:** SQLite, APIs, Python/Flask, HTML/CSS

MULTICYCLE PIPELINED PROCESSOR Computer Architecture

- Designed a multicycle processor in Verilog that utilized pipelining, forwarding, and flushing
- Added branch prediction to decrease average cycles per instructions
- **Technologies Used:** Verilog, GTKWave

FUN COMPILER Systems

- Developed compiler to change FUN programming language to x-86 assembly language and create an executable file
- Handles conditionals, loops, and function calls
- **Technologies Used:** C, x-86 Assembly Language

AWARDS

2019 "Secure Your Flight" - Winner of American Airlines Challenge at HackTX
2019 UT College of Natural Sciences Scholarship
2019 Groce Family Turing Scholarship
2019 NCWIT Award for Aspirations in Computing - Dallas