Robin Ronson

robinronson.com| fb.co/dd
737.210.2279 | robin.ronson@ttu.edu

EDUCATION

TEXAS TECH UNIVERSITY

BS in Computer Science
December 2018 | Lubbock, TX
College of Engineering
Cum. GPA: 3.9 / 4.0

UNITED INDIAN SCHOOL

Grad. May 2014 | Jleeb Al-Shuyoukh, Kuwait

LINKS

Github:// **robrons**
LinkedIn:// **robinronson**
Portfolio:// **robrons.github.io**

COURSEWORK

UNDERGRADUATE

Structures and Algorithms
Operating Systems
Intro. to Artificial Intelligence
Bioinformatics
(Research Asst.)

SKILLS

PROGRAMMING

Proficient:
Java • Python • CSS • HTML
Familiar:
C • C++ • Assembly • JavaScript • LaTeX • Bash
Frameworks and tools:
Android • MySQL • ReactJS • Unix • MongoDB • REST • Redux

EXPERIENCE

TEXAS TECH HPCC | Software Engineer

Jan 2018 - Present | Lubbock, TX

- Incremental development of a Python-based, API-driven test automation tool for **Redfish®**
- Developed a caching mechanism to store HTTP GET requests using JSON serialization, resulting in a ≈ 50x speed improvement over the existing tool
- Rebuilt the tool's log representation feature using Angular and Material Design, which led to the easier identification of assertion failures

RESEARCH

TTU BIOLOGICAL SCIENCES DEPARTMENT | Researcher

May 2017 – Present | Lubbock, TX

Working with **Prof. Amanda M.V. Brown** to create **DNAngler**, a Java pipeline used to iteratively improve phasing of strains from complex cellular assemblag s, allowing users to measure evolutionary forces and predict trajectories of infectious diseases.

PROJECTS

FREEZE-B-GONE | Monitoring Progressive Web Application

- Set up push notification using service worker API for vital freeze warnings.
- Used websockets for real time monitoring of the temperature register by the Raspberry Pi device.
- Utilized ReactJS and Redux for building the Front-end side of the web application in a team of 4.

GRATIS-SPOT | WiFi Hotspot Tracker

- Queried Socrata Open Data API on free public WiFi coordinates, resulting in a 30% increase in tracking in comparison to current standards.
- Implemented Bucketing to find the nearest hotspots along a 5 mile radius based on the users location.

DATABASE PROJECT

implemented k-means clustering algorithm in matlab to compress an image by reducing its color count to 16 by computing colors as cluster centroids and replacing each pixel with its nearest cluster ce ntroid color.

SELF-DRIVING SIMULATION

implemented k-means clustering algorithm in matlab to compress an image by reducing its color count to 16 by computing colors as cluster centroids and replacing each pixel with its nearest cluster ce ntroid color.