Robin Ronson

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EDUCATION

TEXAS TECH UNIVERSITY

BS IN COMPUTER SCIENCE

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

LINKS

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

COURSEWORK

Data Structures and Algorithms Operating Systems Intro. to Artificial Intelligence Bioinformatics

(Research Asst.)

Machine Learning

(Special Topics in CS)

Theory Of Automata

Discrete Computational Structures

SKILLS

PROGRAMMING

Proficient:

Java • Python • HTML • CSS • JavaScript

Familiar:

C • C++ • Assembly • LATEX • Bash

Frameworks and tools: Android Studio • MySQL • ReactJS • Unix • MongoDB • REST • Redux

CONFERENCES

DMTF TECHNICAL SYMPOSIUM

Topic: Performance gains in Redfish Conformance Checker Tool

DISCL RESEARCH SEMINAR

Topic: Upcoming speaker on RESTful API testing and inference

EXPERIENCE

TEXAS TECH HPCC | STUDENT SOFTWARE DEVELOPER

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 \approx 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 allowing users to predict trajectories of infectious diseases.
- Reduced the dimensionality of mutagenesis dataset using t-SNE resulting in a clarified view of malignant metastasis
- Visualized the dataset with the Embedding Projector included in TensorBoard

PROJECTS

FREEZE-B-GONE | MONITORING PROGRESSIVE WEB APPLICATION [7]

- 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 GPS data.

SELF-DRIVING SIMULATION | NEURAL NETWORK

- Developed a self-drving car model based on convolutional neural network with 27 million connections and 250 thousand parameters.
- Used Keras on top of Tensor Flow as our machine learning API.
- Accelerated training the model with steering angle and car camera datasets using Cloud TPU.

IMAGE SEGMENTATION | Unsupervised Learning

- Used K-means for replacing each pixel with its nearest cluster centroid color resulting in 30% size compression.
- Applied partial contrast stretching in order to improve the image quality.
- Median filter was applied to the segmented image to remove any unwanted noise or region.