Robin Ronson

robrons.github.io | 737.210.2279
robintronson1@gmail.com | 1012 Boston Ave, Lubbock, TX 79409

EDUCATION

TEXAS TECH UNIVERSITY
BS in Computer Science
December 2018 | Lubbock, TX
College of Engineering
Summa Cum Laude
GPA: 3.9 / 4.0

LINKS

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

COURSEWORK

Operating Systems
Intro. to Artificial Intelligence
Bioinformatics
(Research Asst.)
Machine Learning
(Special Topics in CS)
Theory Of Automata
Discrete Computational Structures
Object-Oriented Programming

SKILLS

PROGRAMMING

Proficient:
Java • Python • HTML5 • CSS • JavaScript

Familiar:
C • C++ • Assembly • R • Bash

Frameworks and tools:
Android Studio • MySQL • ReactJS • UNIX • MongoDB • REST • GCP • Redux • ExpressJS • Bootstrap 4 • NodeJS • TensorFlow • Keras • AWS • Git

CONFERENCES

DMTF Technical Symposium
Topic: Performance gains in Redfish
Conformance Checker Tool

DISCL Research Seminar
Topic: Speaker on RESTful API testing and inference

EXPERIENCE

TEXAS TECH UNIVERSITY | Full Stack Developer
Jun 2019 - Present | Lubbock, TX
- Spearheaded the transition from SharePoint platform to **MERN** stack, reducing latency by 40% and increasing database admin effectiveness
- Developed full-stack **ReactJS** based web applications which processed, analyzed, and rendered user data visually
- Managed time-sensitive updates, including content changes and database upgrades to **MongoDB**

TEXAS TECH HPCC | Software Developer
Jan 2018 - Dec 2018 | Lubbock, TX
- Upgraded 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 the easier identification of assertion failures

TTU BIOLOGICAL SCIENCES DEPARTMENT | Researcher
May 2017 – Dec 2018 | Lubbock, TX
- Worked with **Prof. Amanda M.V. Brown** to create **DNAngler**, a **Java** pipeline allowing users to predict trajectories of infectious diseases
- Reduced the dimensionality of DNA under mutagenesis dataset using t-SNE, resulting in a clarified visualization of malignant metastasis with **TensorBoard**
- Wrote **Bash** script for constructing a 2D matrix of allele frequency vs. point mutation for transition analysis

PROJECTS

FREEZE-B-GONE | Temperature Monitoring PWA
- Utilized **ReactJS** and **Redux** for building the **front-end** side of a web application that monitors temperature near water pipes
- Set up **push notifications** using service worker API for vital freeze warnings
- Established **WebSocket** connection between the web app and server for real time monitoring of the temperature registered by the Raspberry Pi device

GRATIS-SPOT | WiFi Hotspot Tracker
- Queried Socrata Open Data API, resulting in a 20% increase in detection of free public WiFi coordinates, in comparison to current standards
- Implemented Bucketing to find the nearest hotspots along a 5 mile radius based on the 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 **TensorFlow** as the **machine learning** API
- Accelerated training the model with steering angle and car camera datasets using Cloud TPU