

Robin Ronson

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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 transition from SharePoint platform to **MEARN** stack, reducing latency by 40% and increasing database admin effectiveness by 20%
- Revamped UI and app interface using **Bootstrap 4** for applicant-facing advertisement site leading to 10,000 extra new user visits per month
- 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 **DNAngher**, 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-driving 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