

# AARONEVANS

The University of Texas at Austin 3.95 GPA  
Incoming Intern at Audible, an Amazon Company

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## WORK EXPERIENCE

### Web App Developer

September 2016 - Present

UT Department of Utilities and Energy Management

- Implemented MongoDB database, internal database query API using node.js, Mongoose.
- Programmed RESTful api and server code, allowing microcontrollers to talk to web server.
- Designed, programmed front-end app using React, Redux with secure auth using Passport.js

### Bioinformatics Research Assistant

February 2016 - September 2016

UT Center for Computational Biology and Bioinformatics

- Applied machine learning to identify promoter sequences of neuron genes in mouse brains.
- Advanced research by conducting data wrangling, finding links between unrelated datasets.

## SIDE PROJECTS

### Giant Mural Painting Robot "Robotticelli"

September 2015 - Present

- Served as overall project manager and lead developer of hardware and software teams.
- Developed algorithms for color quantization utilizing machine learning.
- Created code to approximate the robot's rotation along wall, integrated with sensor. data using Kalman filter.
- Programmed Arduino/RPi code for motors, servos, wireless XBee mesh network.

### Simple Rendering Engine using Quaternions

May 2015 - June 2015

- Created primitive rendering engine, included camera manipulation and basic z-indexing.
- Created abstract class that allowed for easier implementation of renderable 3D objects.

### A More User Friendly Course Scheduler

October 2016 - Present

- Designed web application to improve UT's course scheduler using Elasticsearch, React.
- Originally a HackTX project, work has continued in conjunction with UT IT services.

## LANGUAGES AND TECHNOLOGIES

Experienced with Bash/Zsh (systemd) and Debian, Arch-based Linux distributions.  
Comfortable with Node.js, Flask, React. Arduino, RPi, MongoDB & Mongoose  
Prior Experience with Meteor, Angular.js,

Proficient in Python, Lua, Javascript (ES6).

Comfortable in Java, Javascript (ES5), HTML, CSS/SCSS, Bash Language.

Prior Experience with C, C++, R, Julia.

## ORGANIZATIONS AND EVENTS

UT Robotics and Automation Society - Robotticelli Project Manager

Hackathon Participant - HackTX 2016, HackDFW 2016, SDHacks 2016, HackDFW 2017

French Conversation Club - Head of Outreach and Media