Michael Koger Darden

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EDUCATION

Bachelor of Science, Electrical and Computer Engineering, August 2018

The University of Texas at Austin

GPA: 3.76/4.00

Related Courses

Embedded Systems, Software Design and Implementation (I & II), Linear Systems & Signals, Algorithms, Probability, Real-Time Digital Signal Processing, Digital Image & Video Processing, Principles of Data Science, Data Science Lab, Honors Senior Design, Automatic Control

WORK EXPERIENCE

Student Technician, UT LAITS

06/18 – 08/18

- Performed daily morning checks of classroom technical equipment
- Handled customer support calls and helped resolve technical issues quickly and efficiently

Student Technician, UT Applied Research Laboratories

06/16 - 08/16

- Setup GitLab Continuous Integration (CI)
- Automated software toolchain using Bash scripting to facilitate CI testing

ACADEMIC EXPERIENCE

Honors Senior Design Project, The University of Texas at Austin

11/17 - 05/18

- · Collaborated daily with a team to develop a team-formation web application for UT faculty
- Increased algorithm functionality while reducing runtime by 10x
- Documented all steps of the design, research, and implementation process

Software Engineering and Design Lab, The University of Texas at Austin

01/18 - 05/18

- Improved front-end and back-end functionality of a group cocktail recipe web-app
- Interfaced Google geocoding and timezone APIs to create a timezone-exchange Android app
- Co-developed an online blog site using Java and Google App Engine

Data Science Lab, The University of Texas at Austin

01/18 - 05/18

- Generated new Pokémon with a convolutional GAN, Tensorflow, and Microsoft Azure
- Placed in top 33% in a mock Kaggle competition by using machine learning

Digital Image Processing Project, The University of Texas at Austin

11/17 – 12/17

- Implemented motion tracking on stationary videos to extract objects of interest
- Worked with MATLAB image processing and computer vision libraries

Principles of Data Science Project, The University of Texas at Austin

10/17 - 12/17

- Predicted outcomes of baseball games using player statistics
- Achieved an average accuracy higher than the home-team baseline

Embedded Systems Project, The University of Texas at Austin

04/15 - 05/15

- Created a "tag" video game on the TM4C123 microcontroller using C and ARM assembly language
- Placed in "supreme" category

PERSONAL PROJECTS

Macro-tracker Web App (http://macros.mkogerd.com)

10/18

- Created a web-app for tracking macro nutrition using React.js, Node.js, and MySQL
- Designed an API that handles user authentication and database interactions

 Gravity IO Game (http://game.mkogerd.com) Launched an online multiplayer IO game made using <i>Node.js</i> and <i>socket.io</i> Worked with <i>HTML5 Canvas</i> elements and <i>Javascript prototype inheritance</i> 	07/18
 HackTX 2017, The University of Texas at Austin (http://dance.mkogerd.com) Modernized a web-archive of dance videos to make it more accessible Used <i>Python</i> and <i>Flask</i> to populate page templates from a CSV database 	10/17
 Embedded Systems Projects Created an internet controllable desk-light using Javascript and PHP Assembled a Bike-Wheel Display using Image Processing 	09/16 02/16

SKILLS

Languages: Java, C, C++, Python, Javascript, HTML, CSS, Bash, PHP, SQL, MATLAB **Tools:** Git, Flask, Node.js, Bootstrap, React.js, Google App Engine, Android, scikit-learn, TensorFlow **Other:** Windows, macOS, Linux, basic Portuguese, basic Spanish, limited Mandarin Chinese

ACCOMPLISHMENTS

Texas Tricking Club President, 2017 – 2018 UT Social Dance Class Assistant, 2016 – 2018 Huawei Seeds for the Future Participant, 2017 Eagle Scout, 2009