

Michael Koger Darden
17150 Round Mountain Rd. | Leander, TX 78641
(972) 762 6663 | mkogerd@utexas.edu
www.mkogerd.com

EDUCATION

Bachelor of Science, Electrical and Computer, 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

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| Student Technician, UT LAITS | 06/18 – 08/18 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• Setup <i>GitLab Continuous Integration (CI)</i>• Automated software toolchain using <i>Bash</i> scripting to facilitate CI testing | |

ACADEMIC EXPERIENCE

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| Honors Senior Design Project, The University of Texas at Austin | 11/17 – 05/18 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• Improved front-end and back-end functionality of a group cocktail recipe web-app• Interfaced Google <i>geocoding</i> and <i>timezone APIs</i> to create a timezone-exchange <i>Android</i> app• Co-developed an online blog site using <i>Java</i> and <i>Google App Engine</i> | |
| Data Science Lab, The University of Texas at Austin | 01/18 – 05/18 |
| <ul style="list-style-type: none">• Generated new Pokémon with a <i>convolutional GAN</i>, <i>Tensorflow</i>, and <i>Microsoft Azure</i>• Placed in top 33% in a mock <i>Kaggle</i> competition by using machine learning | |
| Digital Image Processing Project, The University of Texas at Austin | 11/17 – 12/17 |
| <ul style="list-style-type: none">• Implemented motion tracking on stationary videos to extract objects of interest• Worked with <i>MATLAB</i> image processing and computer vision libraries | |
| Principles of Data Science Project, The University of Texas at Austin | 10/17 – 12/17 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• Created a “tag” video game on the <i>TM4C123 microcontroller</i> using <i>C</i> and <i>ARM assembly language</i>• Placed in “supreme” category | |

PERSONAL PROJECTS

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| Macro-tracker Web App (http://macros.mkogerd.com) | 10/18 |
| <ul style="list-style-type: none">• Created a web-app for tracking macro nutrition using <i>React.js</i>, <i>Node.js</i>, and <i>MySQL</i>• Designed an API that handles user authentication and database interactions | |

Gravity IO Game (http://game.mkogerd.com) <ul style="list-style-type: none"> • 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) <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Created an internet controllable desk-light using <i>Javascript</i> and <i>PHP</i> • Assembled a Bike-Wheel Display using <i>Image Processing</i> 	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