Scott Chase **Waggener**

MACHINE LEARNING · DATA SCIENCE · ARTIFICIAL INTELLIGENCE

989 Loop Rd, Apt 3.422, Richardson, Texas, 75080

(361)-215-6102 | scw180000@utdallas.edu | TidalPaladin

Experience

Cambria Adara Properties, LLC.
San Antonio, Texas

INFORMATION TECHNOLOGY
Nov. 2008 - Jan. 2014

- Provided service to several night clubs throughout the state of Texas.
- Maintained CCTV systems and local area networks.
- Remotely managed company computers through VNC and Teamviewer.
- Ensured compliance with payment card industry requirements.

Paladin Technologies, DBA.
Rockport, Texas

SOLE PROPRIETOR & SOFTWARE ENGINEER
Jan. 2014 - Aug. 2018

- Provided information technology services to Cambria Adara Properties, LLC. as an independent contractor.
- Upgraded ATM machine hardware and software at approximately 50 locations to ensure EMV compliance.
- Prototyped a centralized smart home control system based on the Raspberry Pi for a client overseas.
- Created circuit board designs using CAD software.
- Designed an open source digital signage solution for the Raspberry Pi.
- Developed firmware in C/C++ for the Espressif ESP8266 and ESP32.

Skills   Python, Tensorflow, C++, Java, Scala, Linux/BSD, SQL, Latex, AWS, Docker, Git, Mathematica, Hadoop, Spark, NoSQL

Education

University of Texas at Austin
Austin, Texas

B.S. IN PHYSICS - 3.53 GPA
Aug. 2012 - Dec. 2015

- **Physics** - classical mechanics, electro and thermodynamics, quantum mechanics
- **Mathematics** - multivariable and vector calculus, differential equations, linear algebra, statistics
- Participated in the design and testing of a scanning tunneling microscope for the physics senior lab.
- Additional courses in biology, genetics, organic chemistry, and biochemistry.

University of Texas at Dallas
Richardson, Texas

M.S. IN COMPUTER SCIENCE - 4.0 GPA
Aug. 2018 - Present

- Intelligent systems track.
- Coursework in machine learning, deep neural networks, database design, big data, and algorithms.

Extracurriculars

Tiny ImageNet Demo
Richardson, Texas

STUDENT VOLUNTEER FOR UTD FACULTY
May. 2018 - Present

- Collaborated with a UTD faculty member to produce Tensorflow 2.0 demonstrations.
- Developed scripts to produce a downsampled version of ImageNet.
- Implemented a Resnet-style vision network for dominant object classification.

X-Ray Photography
Rockport, Texas

LOW COST DIGITAL RADIOGRAPHS
May. 2016 - Aug. 2018

- Designed an apparatus to safely capture high resolution digital radiographs using a DLSR at a low price point.
- Implemented an X-Ray control system that included multiple redundant safety mechanisms.
- Automated the capture of radiographs using MQTT and Python to coordinate multiple pieces of hardware.
- Explored post-processing techniques to remove X-Ray induced noise from captured images.

Driscoll Children's Hospital
Corpus Christi, Texas

WELCOME CENTER VOLUNTEER
Mar. 2016 - May 2017

- 227 hours of service
- Checked in hospital visitors