

# Scott Chase Waggener

MACHINE LEARNING · DATA SCIENCE · ARTIFICIAL INTELLIGENCE

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## Experience

### Cambra 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 PROPRIETER & 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, Keras, C++, Java Linux/BSD, SQL, Latex, FreeRTOS, Eagle CAD

## 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, and algorithms.

## Extracurriculars

### 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 DSLR 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.

### Algorithmic Securities Trading

Richardson, Texas

#### NEURAL NETWORK BASED APPROACH

Aug. 2018 - Present

- Explored neural network architectures capable of trading securities at a profit.
- Implemented an SQL database to hold price histories with by the minute resolution.

### Driscoll Children's Hospital

Corpus Christi, Texas

#### WELCOME CENTER VOLUNTEER

Mar. 2016 - May 2017

- 227 hours of service
- Checked in hospital visitors