Scott Chase **Waggener**

Machine Learning · Data Science

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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 hardware and software on approximately 50 ATM machines for Action ATM in South Texas 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 signange solution for the Raspberry Pi.

Skills Python, Tensorflow, 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 coursework in classical mechanics, electro and thermodynamics, and quantum mechanics.
- Mathematics coursework in multivariable and vector calculus, differential equations, linear algebra, and statistics.
- Computer science coursework in discrete mathematics and data structures.
- Participated in the design and testing of a scanning tunneling microscope for the physics senior lab.
- Additional courses in biology, genetics, organic chemsitry, 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.

Personal Projects

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 beam control system using a Sonoff smart relay that included multiple redundant safety mechanisms.
- Automated the capture of radiographs using MQTT and Python to coordinate the actions of multiple pieces of hardware.
- Explored post-processing techniques to remove X-Ray induced noice 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.