Scott **Waggener**

Machine Learning · Data Science

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Summary

Current computer science graduate student at the University of Texas at Dallas. Primarily interested in the application of machine learning to optimize business logistics and enable new consumer technologies.

Work 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.
- Created circuit board designs using CAD software.
- Designed an open source digital signange solution for the Raspberry Pi.

Education

University of Texas at Austin

Austin, Texas

B.S. in Physics

Aug. 2012 - Dec. 2015

- Physics coursework in classical mechanics, electro and thermodynamics, and quantum mechanics.
- Mathematics coursework in multivariable calculus, differential equations, vector calculus, linear algebra, probability, 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

Aug. 2018 - Present

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

Personal Projects

X-Ray Photography

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.

Stock Trading

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.