

STEVEN WILLIAM TOLBERT

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SUMMARY

Machine Learning Engineer particularly interested in **computer vision**, **distributed learning**, **embedded systems**, and the deployment of such systems at **scale**. Over the course of my career I've been devoted to delivering high quality projects that leverage the cutting edge of **artificial intelligence** research to redefine what is possible for the industry.

PROFESSIONAL EXPERIENCE

Florida Power and Light

Data Scientist

August 2018 – present

Developed machine learning models and pipelines that delivered several millions in savings and revenue gain each year as well as increasing our customer reliability. While in this role I was given great opportunities to explore many different problem spaces including: time-series analysis, computer vision, classification on rare events, and large time-scale regression problems. In addition I worked directly on deploying these models at scale in the cloud either via endpoints, containers, or a full serverless stack.

National High Magnetic Field Laboratory

Researcher

August 2016 – January 2018

Studied flux methods of crystal synthesis searching for new properties in crystalline structures at the Mag-Lab. Critical responsibilities included working with cryogenic tanks, arc welding, reaction preparation with hazardous reagents in a glove box, and heating substances to extreme temperatures.

CMS Centre

Researcher

January 2015 – May 2017

While conducting research on the compact muon solenoid (CMS) experiment at CERN I explored large data-sets from the 13 TeV high luminosity run in search of quantum black holes produced under the ADD model and successfully defended by thesis on this topic. I also explored the electromagnetic shower-shape topology resulting from millions of events as an alternative to photon-isolation for the purposes of photon identification and reconstruction. This research was presented at a research symposium held at Florida State University. Methods used for high energy physics research can be applied for big data solutions.

EDUCATION

Florida Atlantic University, Boca Raton, Florida

M.S of Artificial Intelligence

May 2020 – May 2022

Florida International University, Miami, Florida

B.S of Electrical Engineering

May 2019 – December 2021

Florida State University, Tallahassee, Florida

B.S of Physics with a Minor in Mathematics

August 2014 – May 2018

B.S of Mathematics with a Minor in English

August 2014 – May 2018

AFFILIATIONS

Tau Beta Pi

Engineering Honor Society

December 2019 – Present

Six Sigma

Six Sigma Green Belt Certified

March 2020 – Present

International Institute of Business Analysis

Entry Certificate in Business Analysis

July 2018 – Present

SKILLS / KEYWORDS

Frameworks and Dataframes: TensorFlow, PyTorch, SKlearn, Pandas, Numpy

Backend: Python, Java, C, C++, R, Julia

Frontend: HTML, Dash, Plotly, Matplotlib, Javascript, jQuery

Databases: MySQL, PostgreSQL, SQLDeveloper, DynamoDB, MongoDB

Version control systems: Git, Subversion

Misc: Amazon Web Services (SageMaker, Lambda, EC2, S3, CloudWatch), Docker