JENNIFER SHTAWAY

AUTOMATION ENGINEER

EMAIL: jshtaway@gmail.com PHONE: 415-910-3241LOCATION: San Francisco
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SKILLS

PROGRAMMING LANGUAGES: SQL and No-SQL, MySQL, JavaScript , CSS , HTML, Python, Perl, Unix Bash, C/C++, XML, Verilog, TCL
DATA ANALYTICS & VISUALIZATION: Flask , Rest API's, Spark, AWS, TensorFlow Keras Machine Learning, D3, leaflot, plotly, matplotlib etc., Web scraping w/ Beautiful soup and more..., My SQL Workbench, JMP, Jupyter Notebook, Heidi SQL, Tableau, Regression / Modeling, Numpy, Pandas, Hadoop
WEB DEVELOPEMENT: Front & Back End Dev / Debug, Flask Rest API dev, Selenium Webdriver, Bootstrapping, Node, React, Geomapping w/ Leaflet, D3, leaflot, plotly, matplotlib etc.
MORE...: Git version Control, SVN Version Control, Agile Rally Tracking, Scrum, Putty SSH and Telnet Client, White box / Black box testing, Unit testing

EMPLOYMENT

Intel (10 years), *Engineer: Electrical Validation / Analog Design / Platform Applications*, Santa Clara CA Mar. 2009 - Current

Databases (AWS, SQL, Flask, D3, Pandas, Matplotlib, Numpy, Python, REST API's, Javascript, CSS, HTML, React, JSON):
• Migrated local test data storage to SQL database standardization
• Initiated automated statistical analysis, visualizations and database interaction with python Flask, SQL and D3. This saved time and effort for volume testing and had cross team application.
• Automated SQL data logging and reporting from test content, enabling quick access and understanding of necessary markers for product health.
• Trained team on machine learning for in depth understanding of product under validation.

Automation (Unix, Python, Bash, Perl, Android, XML, Verilog, C, TCL):
• Self Started / directed: Reduced test complexity by ~20% by implementing automated self initiated python <-> verilog conversion functionality.
• Developed software tools including Android applications, bash scripting, xml coding, ADB Android commands, and PERL scripting.
• Developed ticket tracking and management tool. This enabled better and more accurate allocation of resources.
• Developed lab equipment automation for testing across multiple teams, saving setup and time to product release.
• Deployed and maintained test/debug content (python, TIPE) for manufacturing and post silicon electrical validation.

Customer facing / Support / Collaboration
• Worked with many teams to in drive converged power grid and area efficiency, saving Intel time, complexity and effort.
• Close cross team collaboration for electrical validation test content. Resulted in reduced work load and complexity by 50%+.
• Provided support to customers by reviewing customer designs and supporting deviations from Intel phone designs.
• Spearheaded critical Customer issue debugs related to battery management, power usage and battery charging.
• Developed and maintained technical collateral for Original Equipment Manufacturers (OEM) using our mobile processors, and platforms.
• Collaborated with battery management / charging IC designers and supported external partners such as ASUS, Motorola and other OEM / ODM.

Berkeley Data Analytics TA, *Teaching assistant*, San Francisco
• Assist students in understanding any of the following concepts: Python, API's, Javascript, python data libraries like Pandas, Numpy, Matplotlib, Machine learning, linear regression, Spark, AWS, web scraping and more.
• Assist teacher in presentation of material above

EDUCATION

CSU Sacramento · May 2012
BS Electrical/Electronics Engineering

UC Berekely Data Analytics Extension · Nov. 2018

PROJECTS

Music Data Visualization and Back End API Sept. 2018 - Sept. 2018
Created a Flask driven website to visualize various musical artist trends. The website provides a RESTful API for its data. Communicates with a local database using python libraries and sqlite. And utilizes visualization libraries such as d3 and leaflet.

Current Trends Tool June 2018 - Aug. 2018
Created a tool that given a term, sweeps news sources, and social media for topical information. Information returned include :
Sentiment analysis across region, news coverage across news sources, word association maps, popularity of term over time, twitter analysis and more.

Machine Learning LSTM RNN Dr. Seuss Modelling Aug. 2018 - Sept. 2018
Created and trained multiple LSTM (long short term memory) machine learning models on azure, a virtual machine with dedicated GPU's to predict Dr. Seuss stories given previous Dr. Seuss stories as training. LSTM is a new form of neural network that learns long term memory of data that depends on sequential trends. Like language. The model is made to write its own Dr. Seuss stories given a seed sentence.