JULIAN SIA

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EDUCATION

The University of Texas at Austin May 2017 Masters of Science, Computer Science Bachelor of Science, Computer Science Bachelor of Business Administration, Finance and Business Honors Dec 2015 Coursework: Natural Language Processing, Information Retrieval, Deep Learning, Machine Learning, Mathematical Statistics Honors: Bachelor Diploma with Honors (Top 20% class rank) Computer Science and Finance, Phillips 66 Shield Scholar WORK EXPERIENCE Jan 2019 - Present Amazon - Software Development Engineer; Seattle, WA Schlumberger Technology Corporation - <u>Cloud Software Engineer; Houston, TX</u> Aug 2017 - Dec 2018 • Extend backend Go APIs to enable user context management in Schlumberger DELFI portal Write scripts to build and deploy microservices via Google App Engine and configure release pipelines on VSTS Secure previously insecure outward-facing endpoints using Schlumberger's authentication and authorization framework Sandia National Labs - R&D Engineer, Intern; Albuguerque, NM May 2016 - Aug 2016 • Write data crawlers and ingestors in Java to collect and store useful image data and metadata in proprietary Sandia system Formulated and implemented unsupervised learning algorithm analytics for Twitter data into Sandia system via Weka Develop visualizations for waveform transformer of seismic earthquake data using Cesium and React The Boeing Company - Data Scientist, Intern; Seattle, WA May 2014 - Aug 2014 / May 2015 - Aug 2015 Designed and implemented in Java experiments testing features engineered for first-order CRFs via CRFSuite Designed and implemented k-means cluster features for vectors quantized as words (using word2vec and GloVE) 0 Achieved 0.93 F1 (harmonic mean of precision and recall) with dictionary, lexical Boolean, token, and window features. Integrated modular feature extractors and classifiers into pipelined, text classification system with Java Union Pacific Railroad - Systems Engineering Intern; Omaha, NE; Austin, TX May 2013 - Nov 2013 Leveraged SQOOP to fetch UP's Apache weblog data and Pig DML to parse and join access and metrics logs • Performed statistical analysis and visualizations on time series data using R: Developed scripts to measure speed of pulling service time-series data using RODBC from HDFS into R 0 Executed stepwise multivariate logistic regression to pinpoint high risk factors for at-grade rail crossing collisions 0 The University of Texas at Austin - Graduate Teaching Assistant; Austin, TX Aug 2016 - May 2017 Teach basic logic and proof techniques to 60 students, grade assignments and examinations, provide general mentorship Selected by Professor Elaine Rich from the UTCS graduate student body (one of two) to teach freshman seminar logic course **SKILLS & PROFESSIONAL TRAINING** Java, Go, Python (scripting and ML applications) Languages Tools Tensorflow, Keras, OpenCV, NumPy/SciPy, scikit-learn, Git, Bash, Intellij, Postman, Maven, Gradle, PROJECTS "Adaptive Resonance Networks" Fall 2016 Formulated novel semi-supervised training objective to learn MNIST digits for convolutional neural network architectures

• Achieved 97.6% test accuracy on MNIST-test using < 20% of original training data (10k examples v. 55k examples).

"Project Palm"

- Wrote program to track hand and finger movement using Python, NumPy, and OpenCV
- Utilized skin detection algorithm to segment hand from background and convexity defects as proxies for fingers

Additional Information

Fall 2014