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Arjun Chintapalli

[U.S. Citizen]

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EDUCATION

Georgia Institute of Technology Georgia Institute of Technology University of Texas at Austin

Online M.S., Computer Science M.S., Computational Engineering B.S., Petroleum Engineering Honors December 2018 December 2017 May 2016

Certifications: AWS Big Data, AWS Solutions Architect, AWS Developer, AWS SysOps, Engineer-in-Training Courses: Machine Learning, ML for Trading, Reinforcement Learning, Algorithms, Numerical Linear Algebra, Parallel HPC, Simulation, CFD, Machine Vision, Data Analytics/Visualization, Info Security, Big Data w/Spark

EXPERIENCE

Senior Data Engineer - Capital One	January 2018 - Present
□ Leading CPPA compliance efforts to automatically map all data set □ Deployed SQL recommendation engine to reduce/monitor Snowflak □ Setup AWS infrastructure to implement cloud/Spark migration of A □ Created enterprise pipeline that matches/decrypts/renames files lan □ Implemented PiT DR failover/recovery by tracking processed files u □ Released SSN/PCI scanner to scan outgoing files/data directories p □ Automated ASG deployment, software installation and data recover □ Created Lambda to EC2 snapshot backup, tag and copy to DR and	e compute costs using AWS Lambda Ab Initio ETL pipeline ading in datalake and trigger ETL jobs using SNS, DynamoDB and Lambda periodically for sensitive PCI data ry using CFT's, Lambdas, Snapshots
Drilling Data Intern- Intellicess	January 2017 - August 2017
□ Developed a real-time MongoDB cloud database to provide drilling metric visualizations from rig data □ Improved Bayesian rig state classifier and washout belief predictor using real time sensor data □ Developed a well completions recommendation system based on lateral downhole MSE data □ Created real-time drilling efficiency metrics and rig parameter recommendation system to fasten drilling	
Reservoir Engineering Intern - Raisa Energy	June 2015 - August 2015
□ Compiled well production, entity and downhole data from databases for decline curve analysis □ Modeled impact of factors like operator, date, lateral length, location on profitability metrics □ Determined optimal drilling areas by analysis of net present value, decline rate and recovery	
Drilling Data Research Assistant - University of Texas at Austin	May 2014 - May 2015
 □ Created Bayesian belief network to process drilling sensor errors an □ Integrated calculated features such as Mechanical Specific Energy (□ Automated generating daily rig reports evaluating daily performance 	MSE) to real time drilling data

- Spark GraphX: Scala Spark graph analysis to find similar patients using PageRank, power iteration, and phenotyping
- Spark MLlib: Predicted drug recall using NLP sentiment features with CNN/RNN model and PySpark pipeline
- Deep Q-Learning: Recreated Deep Mind DQN net to win Atari games, analyzed performance w/ varying architecture
- ML Trader: Developed market trading algo utilizing Q-Learning and market features such as volatility, momentum
- CUDA CFD: Created GPU parrallized lattice fluid simulation using CUDA, optimized using NVIDIA profiler
- HPC: Implemented multi-node distributed bucket sort using OpenMP and MPI library on HPC cluster using Slurm
- NLP: Used Tweepy API, Beautiful Soup and NLTK to cluster relevant tweets and predict 2016 election sentiment
- Cybersecurity: Implemented programs that accomplish CSRF, XSS, and SQL injection attacks
- Computer Vision: Conducted image analysis using neural nets, PCA and Kmeans to identify diseased food products
- Embedded Smart Home: Created iOS app to control lights, HVAC and touch-screen display using Arduino
- Time Series Analytics: Conducted PCA, Fourier and ARIMA analysis on time-series voltage data to predict outages
- Reservoir Simulation: Reservoir simulators, fluid flow/properties, field project economics, value of info of sensor data

ACCOMPLISHMENTS

PROJECTS

Co-author of SPE Paper, "Self-Learning Probabilistic Detection and Alerting of Drillstring Washout" May 2018 Co-author of SPE Paper, "A Novel Probabilistic Drilling Optimization Index" May 2017 Recipient, UT Petroleum Engineering Department Scholarship 2013 - 2016 Recipient, National AP Scholar [Maximum Scores on 15 AP Exams]

June 2012