ANIRUDDH KHERA

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EDUCATION

Master of Science, Computer Science Dec 2018
New York University, Courant Institute of Mathematical Sciences, New York GPA: 3.74/4.0
Coursework: Machine Learning, Deep Learning, Computer Vision, Big Data, Algorithms, OOP, OS, Cloud Computing, Databases

Bachelor of Engineering, Computer Science & Engineering May 2014
Manipal Institute of Technology, India GPA: 7.55/10

TECHNICAL SKILLS

Programming Languages	:	Java, Python, C/C++, Scala
Web Technologies	:	REST web-services, JavaScript, React, Angular JS, Node.js, D3.js, Bootstrap
Frameworks & Tools	:	Spring Framework, Flask, Play Framework, Maven, Hibernate, JPA, Hadoop, Spark, Kafka
Cloud	:	AWS (EC2, ECS, Fargate, DynamoDB, S3), Docker
Databases	:	PostgreSQL, MySQL, MongoDB, SQL Server
Version Control	:	Git, Perforce

WORK EXPERIENCE

Software Engineering Intern *at 23andMe,* California Jun 2018 – Aug 2018
- Proposed solution to plugin arbitrary trained machine-learning models, agnostic of ML frameworks, languages and serialization techniques, managing lifecycle of models and serving predictions with low latency via REST APIs; Zeroing developers' efforts
- Automated process of populating 1000 Genome Project cluster with Phenotype values and uploading Hbase snapshots to S3

Senior Data Engineer *at GE Healthcare*, India Oct 2016 – Dec 2016
- Streamlined the ETL processing of medical devices' log data by developing UDFs / modules in Java and batch processing the data on Hadoop using Sqoop and Hive to monitor devices' health

Software Developer *at GE Healthcare*, India Jul 2014 – Oct 2016

Remote Healthcare- Maternal, Infant care
- Implemented RESTful APIs using Spring Boot and built UI components using React & Redux framework
- Developed a push-notification system using RabbitMQ and Socket.io to track medical risks and patients' appointments
- Designed a rule-engine based on disease protocols to detect patients with medical risks and notify care-providers
- Reduced technical debt of the codebase to ~10% using Sonar; Wrote Junit test cases using Mockito with 95% code coverage

Virtual Tumor Board
- Conducted market research to understand oncology workflow and scope requirements from top 10 healthcare providers
- Singlehandedly developed & deployed web app. aggregating patients' data; Channelized workflow by building a webRTC app.
- **Led a team of 6 engineers** functioning as **Lead Software Engineer**; Recognized with **2 awards** for the impact on the project

ACADEMIC PROJECTS

Neural Style Transfer (PRISMA like App) http://linserv1.cims.nyu.edu:15146/ Apr 2018 – May 2018
- Applied Transfer Learning using VGG-16 (16-layers) convolutional model to generate a minimum content and style losses image
- Developed cost effective architecture utilizing Google colab free GPU instance as inference script and Dropbox APIs for storage

Predict ETF stock market movement using News Articles and Twitter Feb 2017 – Apr 2017
- Trained Logistic Regression and Random Forest models maintaining temporality of data with predictive accuracy of 78.33%
- Used NLP: Sentiment & emoji analysis (self-built) on tweets and extracted ontologies from news articles using LDA
- Presented the project as a **co-guest speaker** in **NYAI meet up** with an audience of 60+ people

Technical & Fundamental Analysis of S&P 500 Companies using Spark Nov 2017 – Dec 2017
- Built ETL layer using Spark SQL for data from Yahoo! Finance, NASDAQ, EDGAR SEC; Discovered trends based on portfolios
- Trained ARIMA (time-series) model to forecast stock price on rolling basis; Used spark-TS to minimize shuffle across network

ACHIEVEMENTS & EXTRA-CURRICULAR

- Published research study paper on Bayesian Neural Network https://arxiv.org/abs/1801.07710 Jan 2018
- **Won 3rd prize at HackNY Hackathon**; Built word embedding model predicting visa interview outcome using chatbot Apr 2018
- Graduated from *Edison Engineering Development Program,* one of the premier **leadership programs at GE**
- Achieved 2 silvers and 1 bronze medal in **National swimming meet, India**; Won 100+ medals in state & college events
- Appointed as a **Teaching Assistant** for graduate courses on **Predictive Analytics** and **Big Data** at NYU