Niraj Rajgor

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Professional Experience

- **Kustard Technologies** — Mumbai, India
  Senior Software Engineer — *Mar 2017 – Apr 2020*
  - **Starzomi**: Redesigned server-side services to support web-based client & streaming real-time data using WebSockets. Improved performance using ∼70% smaller payloads & boosted reliability using micro-services architecture
  - Developed non-intrusive ways to gather, store, visualize and analyze metrics using Elastic, Logstash & Kibana for latency across micro-services to identify bottlenecks and performance improvement options.
  - Developed data collection mechanisms to track and compare client portfolio before and after trades, for reporting over REST APIs to compliance teams that helped generate reports instantly instead of EoD.
  - Implemented automated performance testing using in-house CI/CD and build tools to reduce developer intervention and save at least 4 man-hours/release cycle.
- **LiveFiesta** — Mumbai, India
  Frontend Developer — *July 2016 – Jan 2017*
  - Designed and developed Android application with an average rating of 4.5+ for customers to book tickets to events. Leveraged MVP architecture, Dependency Injection & TDD for testable and maintainable code.
  - Developed utility application to redeem tickets for convenient one-time entry to customers reducing entry time by 50% & cut losses due to fake ticket duplication & untracked re-entrants.

Projects & Awards

- **HoldingWilley** : An iOS app for displaying real-time scores, stats & analysis of cricket matches.
- **WaveView** : Open-source Android/Java library for rendering and animating sinusoidal waves
- **Smart Home Solution** : Android application to control electrical appliances remotely over the internet received 1st prize under category 'Sustainable Development' at Prakalpa 2014, KJSCE.
- **Chess Rating Prediction**: Used regression techniques, Random Forests and Gradient Boosting, over novel features extracted from moves played in 100,000 Chess games to predict Elo ratings of players. Complex feature extraction run on distributed compute nodes in parallel using OpenMP API for 15 times faster processing.
- **Comment Toxicity Detection**: Compared use of GloVE & fastText word embeddings on multi-class classification of toxicity levels in Wikipedia comments. Achieved an AUC score of 0.98+ using creative text pre-processing techniques along with Bi-GRU & BERT.
- **Video Action Classification**: Compared LSTM v/s SVM for action classification task on the UCF101 data. Used Transfer Learning to compute features for 60000 video frames with limited compute resources.
- Ranked among top 1% in India in Graduate Aptitude Test in Engineering for Computer Science, a national-level exam organized by Indian Institute of Technology & Indian Institute of Sciences.

Publication

- **Visualization of Mechanics Problems based on Natural Language Processing**
  International Journal of Computer Applications — *Apr 2015*

Technical Skills

- **Languages & DB**: Proficient in Python & Java, experience with Swift, C, C++, SQL, NoSQL, MongoDB
- **Frameworks & Libraries**: Spring, Android, iOS, Apache Kafka, Elastic, Logstash, Kibana, TensorFlow, Keras, PyTorch, NLTK, spaCy, OpenCV, Pandas, NumPy, scikit-learn, Matplotlib, MapReduce, Spark.
- **Build & Other Tools**: Git, Gradle, Maven, Jenkins, Bash, Linux.

Education

University of Mumbai — Mumbai, India
Bachelor of Engineering in Information Technology; First Class — *Aug 2010 – May 2015*

- Data Structures & Algorithms, Discrete Maths, Software Engineering, Object Oriented Analysis & Design