Nikhil Sulegaon

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Education

- **University of Colorado Boulder** — Boulder, CO
  Master of Science in *Computer Science*; *Aug 2017 – Present (Expected: May 2019)*
  Relevant courses: BigData, ML, NLP, Probabilistic Models for ML, Computer Vision, and, Object Oriented Design.
- **BMS College of Engineering** — Bangalore, India
  Bachelor of Engineering in *Information Science and Engineering*; *Sep 2011 – May 2015*

Experience

- **Data Engineering Intern - Expedia Inc**, Chicago, USA — May 2018 - Aug 2018
  - **RevPlus (Spark, Python, RxJava, Node.Js)**: A B2B application aiding hoteliers manage their hotel pricing.
    - Productionalized a price recommendation ML algorithm using technologies like Kafka, Lambda, and Spark.
    - Contributed to the ideation and restructuring of the existing data pipeline for performance.
- **Teaching Assistant** (S/W Dev Methods & Tools) - **University of Colorado Boulder** — Sep 2017 - Present
  - Teaching 80 students, full stack development and deployment of applications using core Agile principles and TDD.
  - Training students on technologies like BASH, HTML/CSS, JS, Git, Postgres, NodeJs, TDD, CI, and AWS/Heroku.
- **Full-Stack/Backend Developer - ThoughtWorks**, Bangalore, India — Aug 2015 - Aug 2017
  - **Project Management Tool (C#, Silverlight, ASP.NET)**: A Multi-tenant SaaS application having about 2000 tenants and 2000-5000 users per tenant.
    - Spearheaded the re-architecture of the legacy application using Test Driven Development for scale.
    - Refactored the code base by introducing design patterns. Also increased the test coverage from 16% to 65%.
    - Optimized complex SQL queries to improve the performance of key features by around 80%.
  - **Danglay (Ruby, Ruby on Rails)**: A scalable carpooling web application using Ruby on Rails to solve the problem of commute faced by numerous employees at ThoughtWorks.

Projects

- **Mixed-Modal Learning (Python, Tensorflow)**: Used conditional generative Neural Networks (modified *Tactron model*) to generate audio samples of bird chirps given a birds image! Submitted a paper to CVPR-2019. GitHub.
- **Opinion Mining Tweets (Spark, Kafka, Redis)**: Performed Aspect Extraction and Opinion mining for product reviews on stream of tweets. These opinions were visualized on a map based on the sentiment score. Demo, GitHub.
- **Object 3D Pose Estimation (Python, Tensorflow, C#, Unity)**: Using a Convolutional Neural Network to predict an object's 3D pose to generate real and virtual object interactions in a Hololens. Demo, Paper, GitHub.
- **Agile board (Java, SpringMVC)**: A web based Agile board developed for an OOP-design cum refactoring exercise. Devised a *custom design pattern* as part of the project implementation. App, GitHub.
- **Navisys (Java, Android, Python, C++, OpenCV)**: An embedded system fitted into a jacket that provides turn-by-turn navigation with human and obstacle detection to the visually impaired. Report, Synopsis.

Programming Skills

- **Languages**: Python, C#, Java, NodeJs, Scala, Ruby, C++, PostgreSQL, MySQL, MSSQL, and MongoDB.
- **Frameworks**: Tensorflow, Express.Js, ASP.NET, Flask, Ruby on Rails, SpringMVC, ReactJs with Redux.
- **Others**: Spark, Hadoop, Kafka, Redis, AWS(Lamba, EMR, EC2), Storm, Heroku, Qubole, Pig, CI, Docker.

Achievements

- 'Outstanding Teaching Assistant' award for having the best Faculty Course Questionnaire(FCQ) scores in the Computer Science department of the University of Colorado Boulder during the Fall'17, Spring'18, and Fall'18 semesters.
- 'Best Research Project' award at the IEEE International Advance Computing Conference 2015, held at B.M.S College of Engineering. The project also featured in the newspaper for its novel approach of implementation.