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EXPERIENCE

- **Software Engineer - Uber ATG**, San Francisco, USA Oct 2019 - Present
 - Built highly scalable distributed systems that processed large volumes of sensor data generated in an autonomous vehicle to facilitate data analysis. Analysis of this data allowed us to derive mission-critical intelligence
 - Developed complex data pipelines using various Big Data and Data Warehousing technologies like Hadoop, Hive, and Spark. Deployed these intricate pipelines onto the Cloud using an array of Amazon AWS Services.
- **Teaching Assistant** (S/W Dev Methods & Tools) - **University of Colorado Boulder** Sep 2017 - Dec 2018
 - Taught 80 students, full stack development and deployment of applications using core Agile principles and TDD.
 - Trained students on tools like BASH, HTML/CSS, JS, Git, Postgres, NodeJs, TDD, CI, and AWS/Heroku.
- **Data Engineering Intern - Expedia Inc**, Chicago, USA May 2018 - Aug 2018
 - **RevPlus (Spark, Python, Java, Node.Js, Kafka)**: A B2B app aiding hoteliers manage their hotel pricing.
 - * Built data pipelines to create training datasets. Made the data accessible through APIs.
 - * Worked on creating a platform to train a Machine Learning model on a Spark cluster on AWS.
- **Full-Stack/Backend Developer - ThoughtWorks**, Bangalore, India Aug 2015 - Aug 2017
 - **Project Management Tool (C#, ASP.NET, SQL Server)**:
 - * Spearheaded the re-architecture of a Multi-Tenant application, improving its overall performance by 60%.
 - * Boosted the health of the codebase by making it more extensible. Increased the test coverage from 16% to 65%
 - **Danglay (Ruby on Rails, Postgres, Heroku)**: Part of a team that built a carpooling web application by employing the best practices of TDD, CI/CD, Agile methodologies and other clean coding techniques.

EDUCATION

- **University of Colorado Boulder** Boulder, CO
 - **Master of Science** in *Computer Science*; Aug 2017 – Aug 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

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(Lambda, EMR, EC2), Storm, Heroku, Qubole, Pig, CI, Docker.