

EDUCATION

- **New York University** **New York City, NY**
Master of Science in Mechatronics and Robotics; GPA: 3.5/4 Sep. 2021 - May. 2023
- **Birla Institute of Technology and Science, Pilani** **Pilani, India**
Bachelor of Engineering in Electronics and Instrumentation Aug. 2015 - May. 2019

EXPERIENCE

- **Central Electronics Engineering Research Institute** **Pilani, India**
Deep Learning Intern Jul 2018 - Dec 2018
 - **Tensorflow:** TensorFlow is an open source software library for numerical computation using data flow graphs; primarily used for training deep learning models.
 - **Apache Beam:** Apache Beam is a unified model for defining both batch and streaming data-parallel processing pipelines, as well as a set of language-specific SDKs for constructing pipelines and runners.
- **Coursera** **Mountain View, CA**
Senior Software Engineer Jan 2014 - Oct 2016
 - **Notifications:** Service for sending email, push and in-app notifications. Involved in features such as delivery time optimization, tracking, queuing and A/B testing. Built an internal app to run batch campaigns for marketing etc
 - **Nostos:** Bulk data processing and injection service from Hadoop to Cassandra and provides a thin REST layer on top for serving offline computed data online.
 - **Workflows:** Dataduct an open source workflow framework to create and manage data pipelines leveraging reusables patterns to expedite developer productivity.
 - **Data Collection:** Designed the internal survey and crowd sourcing platform which allowed for creating various tasks for crowd sourcing or embedding surveys across the Coursera platform.
 - **Dev Environment:** Analytics environment based on docker and AWS, standardized the python and R dependencies. Wrote the core libraries that are shared by all data scientists.
 - **Data Warehousing:** Setup, schema design and management of Amazon Redshift. Built an internal app for access to the data using a web interface. Dataduct integration for daily ETL injection into Redshift.
 - **Recommendations:** Core service for all recommendation systems at Coursera, currently used on the homepage and throughout the content discovery process. Worked on both offline training and online serving.
 - **Content Discovery:** Improved content discovery by building a new onboarding experience on coursera. Using this to personalize the search and browse experience. Also worked on ranking and indexing improvements.
 - **Course Dashboards:** Instructor dashboards and learner surveying tools, which helped instructors run their class better by providing data on Assignments and Learner Activity.
- **Lucena Research** **Atlanta, GA**
Data Scientist Summer 2012 and 2013
 - **Portfolio Management:** Created models for portfolio hedging, portfolio optimization and price forecasting. Also creating a strategy backtesting engine used for simulating and backtesting strategies.
 - **QuantDesk:** Python backend for a web application used by hedge fund managers for portfolio management.

TECHNICAL SKILLS

- **Languages:** Scala, Python, Javascript, C++, SQL, Java **Technologies:** AWS, Play, React, Kafka, GCE

PROJECTS

- **QuantSoftware Toolkit:** Open source python library for financial data analysis and machine learning for finance.
- **Github Visualization:** Data Visualization of Git Log data using D3 to analyze project trends over time.
- **Recommendation System:** Music and Movie recommender systems using collaborative filtering on public datasets.
- **Mac Setup:** Book that gives step by step instructions on setting up developer environment on Mac OS.