Reid Cooper

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EDUCATION

- **Monmouth University**   West Long Branch, NJ
  Master's of Science, Software Engineering; GPA: 3.97   *May. 2014 – May. 2015*

- **Monmouth University**   West Long Branch, NJ
  Bachelor of Science, Software Engineering; GPA: 3.44   *Sept. 2010 – May. 2014*
  Minor in Mathematics

EXPERIENCE

- **Teachable**   New York, NY
  Senior Software Engineer II   *Mar 2019 - Present*
    - **Tensorflow**: TensorFlow is an open source software library for numerical computation using data flow graphs; primarily used for training deep learning models. Worked on APIs and performance for training models on Tensor Processing Units (TPU).
    - **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.

- **Mack Weldon**   New York, NY
  Full Stack Software Engineer   *Sept 2015 - March 2019*
    - **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.

APPS

- **Dashcoop**: A Roku screensaver that displays the current time and weather in an intuitive dashboard layout. Highly customizable. Configure your location, clock format, units of measurement, screen dimmer, and much more. Backend server written in Ruby and Sinatra. Integrates WeatherAPI's Weather and Googles Geocoding APIs. 5,800+ cumulative downloads to date.

PROJECTS

- **Kane Brewery Management System**: A Ruby-On-Rails full stack brewery management system that keeps track of in-progress and finished product. A cost effective solution for small-scale breweries and wineries that wish to separate themselves from redundant inventory tracking methods.