Jian Loong Liew

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EDUCATION

- **Monash University**　　　　　　　　　　　　　　　　　Melbourne, Australia
  Master of Information Technology (Professional) - Thesis; GPA: 4.00　　*Aug. 2013 – Aug. 2015*

- **Swinburne University of Technology**　　　　　　　　　Melbourne, Australia
  Bachelor of Science (Computer Science & Software Engineering); GPA: 3.91　　*Jul. 2010 – Dec. 2012*

EXPERIENCE

- **Monash University, Caulfield Campus**　　　　　　　　　Mountain View, CA
  Sessional Lecturer & Teaching Associate　　　　　　　　　*Oct 2015 - Present*
    - **ASP.NET MVC5**: Contributed signficantly to the restructuring of FIT5032 - Internet Applications Development. Previous offerings of the unit was based on ASP.NET Web Forms

- **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.

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.