

# Junle Qian

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## EDUCATION

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- **University of Illinois at Urbana Champaign** Urbana, IL  
*Master of Science in Electrical and Computer Engineering* Jan. 2013 – May. 2014
- **University of Illinois at Urbana-Champaign** Urbana, IL  
*Bachelor of Science in Electrical Engineering* Jan. 2009 – Dec. 2012

## EXPERIENCE

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- **Teradata** Bellevue, WA  
*Software Development Engineer II* May 2017 - Present
  - **IntelliCloud BaaS API:** TensorFlow is an open source software library for numerical computation using data flow graphs; primarily used for training deep learning models.
  - **IntelliCloud BaaS Metering:** 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.
- **Amazon Web Services** Seattle, WA  
*Software Development Engineer* July 2014 - May 2017
  - **EC2 NAT Fleet Deployment Workflow:** 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.
  - **EC2 NAT Fleet Deployment Service:** Bulk data processing and injection service from Hadoop to Cassandra and provides a thin REST layer on top for serving offline computed data online.
  - **EC2 NAT Fleet Deployment Command-line Interface:** Dataduct an open source workflow framework to create and manage data pipelines leveraging reusables patterns to expedite developer productivity.
  - **EC2 NAT Fleet Alarm Suppression:** Analytics environment based on docker and AWS, standardized the python and R dependencies. Wrote the core libraries that are shared by all data scientists.
  - **ElasticBGP Route Divergence Metric:** Designed the internal survey and crowd sourcing platform which allowed for creating various tasks for crowd sourcing or embedding surveys across the Coursera platform.
- **University of Illinois at Urbana Champaign** Urbana, IL  
*Research and Teaching Assistant* Jan 2013 - May 2014
  - **Research Assistant - Biometrics:** Research on machine learning for portfolio hedging and replication algorithms. Modeling low-risk & continuous-return strategies. Developed the python library QSTK.
  - **Teaching Assistant - Digital Systems Laboratory:** The online course on Coursera, had more than 100,000 students enrolled. It was featured on the 11 Alive News and the Atlanta Journal Constitution. Involved in creating assignment, exams and conducting recitation sessions. Also taught the on-campus version of the course.
- **Amazon** Seattle, WA  
*Software Development Engineer Intern* Summer 2013
  - **Smart Android AppStore Backend Explorer:** Created models for portfolio hedging, portfolio optimization and price forecasting. Also creating a strategy backtesting engine used for simulating and backtesting strategies.
- **TechExcel** Lafayette, CA  
*Software Development Engineer Intern* May 2011 - Jul 2011
  - **DevSuite on Android Tablet:** Research on machine learning for portfolio hedging and replication algorithms. Modeling low-risk & continuous-return strategies. Developed the python library QSTK.
  - **SVN Migration:** Research on machine learning for portfolio hedging and replication algorithms. Modeling low-risk & continuous-return strategies. Developed the python library QSTK.

## PROJECTS

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- **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.