

# TONG WANG

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## EDUCATION

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**Rutgers, The State University of New Jersey**

**Sept 2013 - May 2015**

M.S, Electrical and Computer Engineering, GPA: 3.85

**Qingdao University; Qingdao, China**

**Sept 2009 - Jun 2013**

B.S, Automation, GPA: 3.5

## SKILLS

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**Programming Language:** Java, C/C++, Python, TypeScript, HTML, CSS, SQL

**Tools and Frameworks:** Spring, Angular 4, Apache Solr, MapReduce, Cassandra, Hibernate

## EXPERIENCE

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**BlackRock; San Francisco, CA**

**Aug 2015 – Present**

**Software Engineer (Senior / Associate Level)**

**Jan 2018 – Present**

Project: Order Generation

- Worked as a full-stack engineer in Asset Allocation team, focused on enhancing order generation and target maintenance process for Aladdin Automated Asset Allocation system with Java, Spring, Angular 4, etc.
- Designed and implemented the functionalities to allow the portfolio manager (PM) to generate orders in a private sandbox session by using Cassandra as an in-memory storage layer, in which the PM is free to experiment with different portfolio management ideas.
- Developed the order generation options panel within the target maintenance system to perform more granular and flexible order generations. On the Asset Allocation system side, implemented an overridden interface to respect the granular options.
- Created regression testing panel to facilitate the transition between two data providers for market indexes' market capitalization data.

Project: Target Maintenance

- Designed and implemented new UX for targets' maintenance on a web-based application to help external clients with their currency hedging business.
- Built the framework to allow other developers easily onboarding different types of targets by introducing REST web services and enforcing design patterns. Also, created and standardized the common Angular 4 components.

**Software Engineer (Junior / Analyst Level)**

**Aug 2015 – Jan 2018**

Project: Python Dependency Management

- Worked as a Python developer within the Core Software Infrastructure team focused on dependency management for internal Python build tools.
- Automated the internal Python package repositories' creation and population process. Modularized dependency management functionalities within Python build tools to facilitate the transition from DevPi to Artifactory as in-house packaging/release tool.
- Developed a plug-in interface that allows Python build tools to seamlessly interchange package repositories. Designed and implemented a new repository architecture within Artifactory to support BlackRock Python developers' PoC, development and release process.

Project: BlackRock Text Analytics Platform

- Automated BlackRock Text Analytics Platform's daily data acquisition process to provide timely research data for BlackRock's researchers to speed up the alpha generation.
- Implemented data clean and massaging job with Hadoop, MapReduce to handle large data volumes. Designed and developed the authentication and authorization process on the platform to protect sensitive information.

## CERTIFICATE

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Oracle Certified Professional, Java SE 7 Programmer

Oracle Certified Associate, Java SE 8 Programmer