CUONG T. DONG-SI

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Github: https://github.com/tdongsi Website: http://tdongsi.github.io/

Skills

Languages:	Java, C/C++, Python, Scala, Groovy, JavaScript, Perl, Bash.
Database:	SQLite, MySQL, SQL, XPath, XQuery, Data Warehouse.
Java stack:	Guava, Spring, JDBC, SLF4J, Jacoco, JUnit/TestNG, Ant, Maven, Gradle.
JS stack:	NodeJS, Grunt, npm, Jasmine, Mocha, HTML, CSS.
Other Lib.:	ANTLR, Boost, OpenCV, Eigen, Numpy, Matplotlib.
OS & Platforms:	Windows, Mac OS, CentOS, Ubuntu, Amazon Web Services.
DevOps & Tools:	Jenkins, Docker, Kubernetes, SonarQube, Nexus, Splunk, Chef, Git, Github, SourceTree, Perforce, Confluence, JIRA, Trello, IntelliJ, PyCharm, Eclipse.

Honors & Awards

- **IoT Rock Star Award** [April 2017]: Awarded by SVP of IoT Engineering at Salesforce IoT All-Hands.
- **Winner - Best Idea** [August 2016]: Member of winning team for Best Idea in Intuit Data Hackathon.
- **Intuit Spotlight Awards** [March 2015, August 2015, June 2016]: for "Learn Fast" and "Deliver Awesome".
- **IEEE ICRA Travel Award** [2012], by **National Science Foundation**.
- **IEEE ICRA Travel Award** [2011], by **IEEE Robotics and Automation Society**.
- **Dean's Distinguished Fellowship** [2009], by **University of California, Riverside**.
- **Singapore Scholarship**, by **Singapore Ministry of Foreign Affairs** [2002-06], full tuition scholarship for undergraduate study, awarded to the top students of ASEAN countries.

Recent Work Experience

Senior Member of Technical Staff, salesforce.com 10/2016 - present

- Work on various services and components for CI/CD solutions in Salesforce IoT.

Recent Projects and Achievements:

- Designed and implemented solid CI/CD platform as the foundation for launching IoT Explorer into production.
- Built robust, highly-available Kubernetes infrastructure on top of internal Compute services.
- Designed and implemented fully containerized Jenkins systems running on the above Kubernetes infrastructure, integrated with other systems and services such as Github, DockerHub, Nexus, Slack, PagerDuty. Implemented various key features such as Docker images, access control, code coverage gates, Slack/email notifications.
- Contributed extensively to the shared global Groovy library for Jenkins to reduce code duplication and make Jenkinsfile-based pipeline development easier for Jenkins users.
- Awards: IoT Rock Star Award for delivering a scalable CI/CD system used in Salesforce IoT.

Software Engineer II, Intuit Inc. 12/2014 - 10/2016

- Designed and implemented automation frameworks and tools for **Big Data** projects for QuickBooks Online and Small Business Group (SBG) ecosystem. Worked with business analysts and data scientists on project requirements to develop appropriate tools and automation solutions.
- Designed and implemented a test automation framework to facilitate automated unit/functional testing of **SQL scripts**, verifying Extract-Transform-Load (**ETL**) processes between data sources (e.g., Netezza, Hive, HDFS, Vertica), and validating data consistency and integrity.
- Member of team "Ahab" that won **Intuit Data Hackathon**: Using Docker containers to recreate data warehouse infrastructure and pipelines in local environment for efficient ETL development and testing.
- Three **Intuit Spotlight Awards** for demonstrating Intuit Values: "Learn Fast" and "Deliver Awesome".

Software QA Engineer, Objectivity Inc. 7/2012 - 12/2014

- Designed and implemented automation frameworks to facilitate scalable testing for company's database products, Objectivity/DB and InfiniteGraph.
- Designed and developed an automated test suite for testing Java byte code injection tools, including a custom Java parser (based on ANLTR) to verify correctness of decompiled byte codes after injection.
- Developed functional tests for Talend data connectors in ETL pipelines for transforming data from MySQL and Cassandra databases to Objectivity databases.

Research Software Engineer, National University of Singapore 8/2006 - 7/2009

- Worked in driverless car projects, a collaboration effort of multiple Singaporean industrial research labs, managed by Defense Science Organization (DSO), Singapore.
- Designed, implemented and evaluated computer vision algorithms for visual sensor modules. Designed and implemented an adaptive machine learning algorithm to identify drivable road surface from stereo images, by building statistical models of road appearance.

Education

Master of Science, 2012, University of California, Riverside. **GPA**: 3.92/4

Bachelor of Engineering, 2006, National University of Singapore, Singapore. **GPA**: 4.42/5