

Junle Qian

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EDUCATION

- **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

- **Teradata** Bellevue, WA
Software Development Engineer II May 2017 - Present
 - **IntelliCloud BaaS API**: Designed and developed serverless RESTful API for BaaS (Backup as a Service) in IntelliCloud.
 - **IntelliCloud BaaS Metering**: Developed the web user interface in IntelliCloud that indicated backup usage to customers.
- **Amazon Web Services** Seattle, WA
Software Development Engineer July 2014 - May 2017
 - **Blackfoot Deployment Workflow**: Designed and developed the deployment workflow that automated software deployment for the fleet of NAT (network address translation) devices named *Blackfoot*. The *Blackfoot* fleet translate and forward network packets for all EC2 (Elastic Compute Cloud) instances. The workflow scaled to deploy *Blackfoot* devices worldwide and deployment concurrency was adjustable based on operational policies.
 - **Blackfoot Deployment Service**: Designed and developed the deployment service which served as the gateway in front of the Blackfoot deployment workflow. It involved design and development of the RESTful API which opened to create, read, update and delete operations for a software deployment task.
 - **Blackfoot Deployment Website**: Designed and developed a Django website which served as the web user interface in front of the Blackfoot deployment service.
 - **Blackfoot Deployment Command-line Interface**: Designed and developed a command-line interface in front of the Blackfoot deployment service to support command-line operations and scripts.
 - **Blackfoot Alarm Suppression**: Conducted a series of cross-team conversations to renovate the alarm suppression strategy for *Blackfoot* devices. Alarms could be suppressed with a web request, which made it possible to automate ticket creation and resolution against device failures.
 - **ElasticBGP Route Divergence Metric**: Created the metric and alarm that characterize divergence of CIDRs among multiple internal routers. The divergence metric revealed degree of CIDR aggregation in each EC2 availability zone, which helped to monitor and prevent border routers from being overfilled.
- **University of Illinois at Urbana Champaign** Urbana, IL
Research and Teaching Assistant Jan 2013 - May 2014
 - **Research Assistant - Biometrics**: Research on new and economic approaches to take concentration measurements of popular chemicals in water and blood such as nitrate and glucose, with integration between a smartphone and biosensor circuitry.
 - **Teaching Assistant - Digital Systems Laboratory**: TA for lab course ECE385 (Digital Systems Laboratory). Guided students to design, build, and test digital systems using transistor-transistor logic (TTL), SystemVerilog, and field-programmable gate arrays (FPGAs).
- **Amazon** Seattle, WA
Software Development Engineer Intern Summer 2013
 - **Smart AppStore Backend Explorer**: Designed and developed the user-friendly website to explore and test backend service of Amazon Android AppStore.
- **TechExcel** Lafayette, CA
Software Development Engineer Intern May 2011 - Jul 2011
 - **DevSuite on Android Tablet**: Set up QA environments for DevSuite on Android tablet.
 - **SVN Migration**: Completed Subversion data migration between retired and new servers.

PROJECTS

- **Biometric Unlocking System:** An Android application that simulated a smartphone lock in a machine learning approach. It was trained with SVM (support vector machine) algorithm using finger signature data collected from phone users.
- **MoboSens:** An analytical Android application integrated with biosensor circuitry to measure nitrate concentration.
- **Gaming Stimuli:** A set of webpage games developed for the purpose of cognitive research. Moves of players were accompanied with pop-up advertisement images. Performance data that were collected from players was useful to evaluate the cognitive impact of advertisement distraction.

PROGRAMMING SKILLS

- **Languages:** Python, JavaScript/TypeScript, C, C++, SQL, Java, Perl, Ruby
- **Technologies:** AWS, Django, NodeJS, AngularJS, Ruby on Rails, Flask, RPM, Jenkins, Docker