

# QINGXIAO DONG /ching-shal dawng/

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## SKILLS

**Programming:** Java\*, C, C++, Python

**Mobile:** Android SDK\*

**Web:** Node.js, React, Bootstrap, HTML/CSS/JS

**Database:** MySQL\*, MongoDB, XML, Parse

**Data Analysis:** Matlab, R

**Others:** JUnit\*, Git, Linux, AWS, REST API, Assembly

(\*proficient)

## EDUCATION

**M.S. in Computer and Information Technology**, MAY 2017 (expected)

**University of Pennsylvania**, USA

GPA: 4.0/4.0. Coursework:

- Software Engineering
- Database & Info Systems
- Intro to Computer Systems (C)
- Data Structures & Software Design (Java)
- Computer Systems Programming (C, C++)

**B.A. in German Language, Literature and Linguistics**, JUN 2012

**Beijing Foreign Studies University**, CHN

GPA: 85/100 (Junior & Senior: 91/100)

**Exchange Student**, OCT 2010 – AUG 2011

**Georg-August University Goettingen**, DE

GPA: 93.8/100

Selected (10 out of 90) as an exchange student to Germany.

## HONORS

3<sup>rd</sup> Place Winner, Juniper – Comcast SDN/Network Automation: Workshop & Competition, 2016

3<sup>rd</sup> Place Winner, PennApps XIII Hackathon MCIT Award, 2016

## CERTIFICATES

Essential Project Management, 2013

Products Development Process, 2012

PGH (Advance German), 2011

## PROJECTS (Source code available on GitHub)

### PennDN – Juniper-Comcast SDN Throwdown | FEB 2016

Wide area network control and analytics platform

- Competed against 9 other teams from 8 universities in US and Europe and won 3<sup>rd</sup> Place in the SDN hackathon challenge. Worked in a group of 3.
- Built a network management platform atop Juniper NorthStar. It can automatically reroute LSPs around failures, and operators can analyze and visualize network data using SQL.
- *My role:* rendered a real-time network topology, SQL queries, and network statistics, using React, REST API, Ace.js and Google Maps API.
- *My role:* built a query parser using Python in the backend, which projects network telemetry streams onto a uniform timeline using interpolation.

### Calmly – PennApps XIII Hackathon | JAN 2016

Android app for managing stress and anxiety in social situations

- Built an app that allows users to view their real-time and historical heart rate detected by the Android wear's sensor in the background, and get notification when their heart rate exceeds the pre-calibrated threshold.
- Managed communication between phone and Android wear.
- Integrated Parse database to authenticate user and store data.
- *Team of 3, my role: real-time heart rate detection, notification, calibration.*

### Movie Fans Social Network | SEP – DEC 2015

Movie-themed SNS based on TMDB data

- Developed a Node.js web app where users can mark/rate/review movies, like movie stars/directors, follow each other, and share activities.
- Integrated Facebook API to allow logins with both emails and Facebook. Fuzzy search of website contents. Customized recommendations.
- Integrated with MySQL and MongoDB (backend) and Bootstrap (frontend).
- Deployed on cloud services (AWS RDS + AWS EC2 + MongoLab).
- *Group of 4, my role: database, API, web front- and backend, deployment.*

### InstaNote – PennApps XII Hackathon | SEP 2015

Mobile Note-taking App based on OCR

- Developed an Android app that allows users to take notes without typing. Swipe-selected text in images will be transformed into a plaintext note.
- Implemented five activities enabling users to sort, favorite, and share notes. Integrated with Google maps to associate locations with notes.
- Integrated SQLite database and applied Tesseract open source OCR library.
- Applied Android material design at the frontend.
- *Worked in a team of 4, my role: Android front- and backend.*

## PROFESSIONAL EXPERIENCE

### PROJECT MANAGER | MAY 2012 – MAY 2014

Volkswagen Group China, Beijing, CHN

- Managed data using internal databases and compiled analytical reports.
- Managed projects to export 60 electronic and metal parts to more than 15 Volkswagen factories worldwide.
- Held telephone/on-site/video meetings on a daily basis with suppliers and other Volkswagen/Audi/Skoda depts. worldwide.
- Acquired P2+ (exceeded requirements for performance) and T2+ (112.5% over target) in the annual employee evaluation.