Michael Qiu E.I.T.

UBC-Electrical and Computer Engineering, minor in Commerce
Email: Michael.qiu.jm@gmail.com
Michael-Qiu.com

SKILLS

Software:

- Software languages: Python, Node.JS, Javascript, HTML/CSS, C/C++, Java, Swift, PHP
- AWS Certified Solutions Architect - Associate
- System Admin: Linux, OS X, Windows, AWS, Azure

- Databases: MySQL, SQLite, MongoDB, Redis, InfluxDB
- Others: Git, SVN, Agile, REST/WS/MQTT etc.
- Embedded hardware/software design for IoT devices (e.g. Arduino, Raspberry-Pi, Artik etc.)

EXPERIENCE

Fortinet Inc.   **March 2018 – Present**
Software Developer Engineer

- Developed new cybersecurity exchange platform to optimize threat hunting efficiency
- Developed new research tools to accelerate investigation process and reduced at least 50% in time required
- Pushed for higher code standards, greatly enhanced project management and product reliability
- Co-operated with users from different backgrounds in global regions to improve products quality.

Sense Tecnic Inc.   **July 2016 – November 2017**
Full Stack Software Developer

- Contributed to the Cloud IoT virtual management platform based on Node-RED (8K active users).
- Developed and contributed open-source interfaces modules for third-party products (5.5K total downloads).
- Built and maintained test suites for software projects to ensure test coverage (from 20% to 90% +).
- Administrated AWS Cloud servers and resources (EC2, RDS, S3, VPC, DynamoDB, IoT, EBS etc.).
- Published 15 articles with practical use cases on company products and had attracted significant views[1]
- Provided rapid response technical support and consulting services for customers.

Environment Canada   **September 2014 – April 2015**
Co-op IT Support

- Co-operated with 5 remote departments closely in providing technical solutions for various projects.
- Maintained quality network transmission from over 100 remote monitoring stations in the west coast region.
- Ensured successful delivery to the Canadian national data servers via cellular network, dial and satellite.

TECHNICAL PROJECTS

Central Threat System   **Mar 2018 – Present**

- Developed a new platform to provide integrated threat hunting tools (received over 95% positive feedback)
- Developed internal tool suites to automate manual investigation and deployment performed by human.
- Optimized multi stacks to reduce response time by over 90% compare to the previous system.
- Continuously integrate with other Fortinet products to expand features and user bases.

Open-source Node-RED module for GE Predix Timeseries[2]   **October 2016 – November 2016**

- Developed an accessible module that interfaces to GE Predix Timeseries via REST and WS (1K downloads).
- Simplified the complicated and confusing setup steps to provide a clear and organized guide for users.
- Improved the user experience by reducing the setup time and effort required for Predix Timeseries by 80%.

Open-source Node-RED module for Samsung Artik IoT kits[3]   **September 2016 – October 2016**

- Developed an interactive module that controls the GPIO pins on Samsung Artik kits (2.5K downloads).
- Designed user-friendly and practical features that expand the functionalities of 4 models via cloud control.
- Used as sample in the official Samsung Artik developer document[4].

EDUCATION

University of British Columbia   **Vancouver, BC**
B.A.Sc, Electrical Engineering with Minor in Commerce   **September 2012 – May 2016**

- Dean's Honor List Standing

Ref 1: http://developers.sensetecnic.com/knowledge/guides/ 2: https://www.npmjs.com/package/node-red-contrib-predix-timeseries 3: https://www.npmjs.com/package/node-red-contrib-artik 4: https://developer.artik.io/documentation/artik/tutorials/node-red.html