

# NATHAN KONG

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## EDUCATION

M.S. Computer Science, San Jose State University, (currently pursuing)  
B.S. Mechanical Engineering, Business minor, San Jose State University

## PROJECTS

Software Defined Networking for 5G telecommunications (in Progress) - Integration of a software defined network in a Long Term Evolution (LTE) architecture to enable Fifth Generation wireless mobile telecommunications (5G).

QoS for Docker Containers in Cloud Computing (in Progress) - Quality of Service provisioning of Docker containers in a two tiered system. Containers are used in a CaaS.

Simple Bottle - IoT smart pill bottle to help with prescription drug abuse. Used Tessel 1 board to simulate pill bottle. Smart pill bottle information is sent to the cloud for medical staff review.

Health BAN - A Software defined wireless sensor network for a Body Area Network in a healthcare system.

Frequent Itemsets - A frequent itemset algorithm for a sliding window in Apache Spark. Found similar artists based on genre.

P2P chat - Peer to Peer chat application. Information initialization and monitoring from STUN server. UDP and TCP connections.

Project Tracking – A SaaS for project tracking of line items and associated materials.

IntTips – A simple tip calculator built for Android. It rounds the integer values for any percentage tip. The default is 15% and 18%.

## EXPERIENCE

Findlaw (<http://www.findlaw.com/>)

- Migration of web content to Adobe AEM (CQ 5.6.1)
- Redirection of Legacy Domains
- Research on Google PageSpeed insight for images
- Project coordination for state code - <http://codes.findlaw.com>

Chicago Bridge and Iron formerly (Shaw Environmental and Infrastructures)

- Programmed PLC (similar to Arduino but for industrial systems) for control systems with data collection and safety interlocks.
- Tested and troubleshot integration of programming to human machine interfaces (HMI), Supervisory Control and Data Acquisition (SCADA) systems.
- Developed manuals for control systems

## Languages, IDEs, etc

Java, C, Android, html, css, javascript, PHP, Shell, Android Studio, git, Perforce, CRXDE, JIRA, agile, Spark, Mininet, Vagrant, Docker, OMNet++, imagemagick

## Links

<https://natekong.github.io/>  
<https://www.linkedin.com/in/nathanwkong>  
[www.github.com/natekong](https://www.github.com/natekong)