Naphat (Quinn) Lertratanakul
U.S. Citizen

lertrat2@illinois.edu ● (224) 326-6039 ● *LinkedIn:* naphatlert ● *Github:* kawaiirice ● *Bitbucket:* quinnlert

EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN   May 2017
Bachelor of Science in Computer Engineering   *GPA:* 3.82/4.00

WORK EXPERIENCE

YAHOO! INC   Champaign, IL
Software Engineering Intern   May 2016-Present
- Developed Python 2 and 3 compatible test tools for the Yahoo internal and open source versions of the Apache Traffic Server (ATS)
- Created a parser for organizing and storing the traffic server replay data
- Added destination IP filtering options in configuration files responsible for source IP filtering and remap rules

QUALCOMM TECHNOLOGIES INC   San Diego, CA
Software Engineering Intern   May 2015-Aug 2015
- Contributed to the Factory Test Mode features of the Software Automation Tools for the RF Software team
- Optimized memory allocation and usage by utilizing an existing buffer defined by the firmware and assigning unused portions for each memory allocation request
- Performed measurements and calculations (TX Power, ACLR, EVM, VSWR) for the various technologies supported by the modem (CDMA, WCDMA, TD-SCDMA, GSM, LTE)

PROGRAMMING LANGUAGES

Comfortable with C/C++, Java, Python, HTML & CSS, JavaScript
Familiar with PHP & MySQL, Bash, x86, System Verilog

PROJECTS

NUSAnswers   Mar 2016-Apr 2016
- Developed a Q&A website for current/incoming students and faculty at the National University of Singapore (NUS) to ask and answer questions related to classes and college life using Javascript, PHP and MySQL
- Worked on the frontend and backend of the question submission feature, which includes image upload, text and tags, and user verification with Google's Recaptcha

deLIGHTful   June 2015
Qualcomm HackMobile Project
- Created an android application which displays the traffic flow of specified roads and freeways with AllJoyn's Wi-Fi controlled light bulbs
- Integrated the MapQuest Traffic API and the Google Maps API to give the application user flexibility in choosing traffic information on a specific road or freeway
- Modified the AllJoyn SDK to change color, hue, saturation and brightness depending on the traffic flow data updated through the server from MapQuest

Red Panda OS   Apr 2015 – May 2015
Computer Systems Engineering Project
- Built a basic Unix-like OS in C and x86 that executes common terminal commands
- Implemented paging, interrupt and exception handling, and round robin scheduling
- Developed drivers for RTC, PIC, PIT, and keyboard

AWARDS and HONORS

Mary E. Mohler International Study Grant (2016), GE's Women's Network Scholarship (2015-2016), Oakley Scholarship (2014-2015), Rockwell Automation Scholarship (2014-2015), Alwan Engineering Scholarship (2013-2014), Dean's List, James Scholar