

# Si Jine Roh

SOFTWARE ENGINEER

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## Education

### Texas A&M University

College Station, Texas, US

B.S. IN COMPUTER ENGINEERING

May 2016

- Graduated with Cum Laude
- Certificate of Appreciation, Department of Computer Science & Engineering, Texas A&M University, Spring 2016
- Dean's Honor Award, The Dwight Look College of Engineering, Texas A&M University, Spring 2015

## Skill

C/C++ · C# · Java · Python · HTML · CSS · JavaScript · jQuery · Ruby · Rails · Android · MySQL · MongoDB · Arduino · Raspberry Pi · Git · TwinCAT

## Career

### Schlumberger

Katy, Texas, US

SOFTWARE ENGINEER

Feb 2018 - Present

- Back-End developer and Tier 2 Support of real-time well construction decision support and control software
- Developed features and in-house software for support, software development and test
- Analyzed and fixed issues emerged while in field operation

### ColubrisMX, Inc.

Houston, Texas, US

SOFTWARE ENGINEER

Apr 2017 - Feb 2018

- Spin-off from the University of Texas Health Science Center at Houston
- Developed real-time motor control software using C++ and TwinCAT
- Developed robot arm testing tool for Hardware Team, reduced robot arm testing and tuning time by half
- Built and administrated build server, issue tracking server and version control server
- Operated and cooperated multiple surgical robot testing scenarios and demonstrations
- Covered multiple roles (Back-End developer, R&D, QA, IT Administrator, Infrastructure Management)

### Department of Neurosurgery, University of Texas Health Science Center at Houston

Houston, Texas, US

RESEARCH ASSISTANT II

Jun 2016 - Mar 2017

- Developed micro-surgical robot for neurovascular surgical procedures
- Operated and cooperated multiple surgical robot testing scenarios and demonstrations

### Department of Computer Science & Engineering, Texas A&M University

College Station, Texas, US

UNDERGRADUATE RESEARCHER

Jan 2016 - May 2016

- Designed and developed UI for UI/UX research to collect user feedback based on UI/UX differences

PEER TEACHER

Sep 2015 - May 2016

- Coached students to debug and design program during lab sessions and office hours
- Received Certificate of Appreciation

### Korean Students Association, Texas A&M University

College Station, Texas, US

WEB DEVELOPER & ADMINISTRATOR

May 2014 - May 2016

- Designed and developed Korean Students Association website

### O'square Co., Ltd.

Seoul, Korea

WEB & ANDROID DEVELOPER

May 2014 - May 2016

- Developed social activity recommend system in Ruby and Rails on AWS
- Developed Android application with native development toolkit

# Project

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## Automated system

MY SPRINKLER

Spring 2016

- Collect weather forecast to schedule or reschedule your watering plan and water your garden automatically

ARDUINO WiFi

July 2015

- Connect to a server Arduino to set home automation schedule, client Arduino will collect a schedule and proceed automatically

## Electronic system

LASER HARP

Spring 2016

- A Harp with 15 lasers as strings, can generate sounds and MIDI output

RASPBERRY VOICE DROP

Sep 2014

- Cloud voice mailbox system using Raspberry Pi and Dropbox

## Android Application

GOAL ACHIEVER

Fall 2015

- Help to focus on your own work for a certain period of time without watching phone and feel like they are playing a game

R FOR RESISTANCE

Aug 2015

- Calculate resistance of resistor by resistor color code

## Web Development

ONCE UPON A TIME IN COSTA RICA

Jan 2016

- Online photo album using filpbook library and Bootstrap

KOREAN AGGIES

May 2014

- Developed new Korean Student Association website by using CMS(XpressEngine) and migrated database

# Extracurricular

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## OWASP Juice Shop

TRANSLATOR

Dec 2018 - Present

- Contributed as a translator of open sourced web vulnerabilities training project by Open Web Application Security Project

## CodeRed

University of Houston, Texas

DEVELOPER

Nov 2015

- Joined a Hackathon as a developer and coached other students

## TAMUHACK

Texas A&M University, Texas

DEVELOPER

Oct 2015

- Built an Android application can encourage with a group of people with same objectives

## Microsoft Korea Workshop

Seoul, Korea

LEARNER

Mar 2013

- Learned Microsoft Azure and Windows 8 application development

## ITU IT Volunteer

Nangi Village, Nepal

VOLUNTEER

Jul 2012

- Stayed in Nepal a month and taught IT knowledge to local students and teachers
- Sponsored by Korean Government and ITU (International Telecommunication Union)