Neesarg PATEL

neesarg.me

Work Experience

Honeywell
Software Developer
Research & Development
Jan. 2016 – Apr. 2016

- Created Computer Aided Design software for one-click rendering of 2-dimensional CAD models of multiplexers based on design specifications provided by engineers
- Developed and implemented a recursive algorithm to create the most space efficient radio frequency multiplexer design
- Algorithmically generated radio frequency channel gain plots used by engineers to create RF filters and multiplexers for the aerospace industry

Texas Instruments
Software Developer
Advanced Tooling Team
May 2015 – Aug. 2015

- Implemented many features for Texas Instruments Code Composer Studios IDE while employing Test Driven Development techniques using Java and Junit
- Created and automated build and test jobs to run nightly using Selenium, Apache ANT, Jenkins and BASH-Scripting
- Contributed greatly to Texas Instruments Cloud Tools Suite using Express, AngularJS, and Node.js

TheRedPin
Web Developer
Sept. 2014 – Dec. 2014

- Completed major front and back end development projects for the complete redesign of theredpin.com
- Participated in design and implementation of a service oriented architecture involving multiple service and application layers
- Consistently and effectively used tools such as PHP, MySQL, and Linux for dynamic web development

Side Projects

TrafficTime
Android Application

- A commute analysis Android Application that tracks statistics of your daily trips
- Allows you to save your commute each day, for viewing later
- Calculates various trip details including average speed, duration, distance, top speed and time saved by speeding

IoT Security System
TI CC3200 IoT Mictrocontroller + Android User Interface

- Tracks state of door and window sensors to detect intruders
- Sends door and window events from microcontroller to Android application over WiFi connection through UDP
- Audible prompts are used to allow user to arm and disarm the system using Android application

Contact

n94patel@uwaterloo.ca
(416) 566-3657
github.com/neesargpatel
linkedin.com/in/neesargpatel

Skills Summary

Proficient in:

Java ○ C++ ○ C#
JavaScript ○ Tcl/Tk
HTML5 ○ CSS ○ Linux

Familiar with:

C ○ ARM Assembly ○ PHP

Experience with:

Junit ○ Selenium ○ BASH
ANT ○ Jenkins ○ Express
AngularJS ○ Android
Arduino ○ TI Energia

Platforms & Tools:

Git ○ Eclipse ○ Vim

Education

University of Waterloo

Candidate for B.A.Sc
Computer Engineering
2013 – 2018

Relevant courses:

Digital Hardware Systems
Algorithms and Data Structures
Compilers ○ Operating Systems

For more information, please visit neesarg.me