Tarun Gattu

1108 Strickling Drive, Pflugerville, TX, 78660 | Email: gttarun@yahoo.com | Phone: (512)-944-0724

Education

The University of Texas at Austin **May 2017**

Bachelor of Science in Electrical Engineering with emphasis in Embedded Systems and Software Design

Related Coursework: Embedded Systems (Assembly/C with TI microcontroller), Circuit Theory, Software Design and Implementation I (C/C++), Linear Systems and Signals (Continuous/discrete time signals), Digital Logic Design, Engineering Communication

Current Coursework: Software Implementation II (Java & OOP), Embedded Systems Design Lab (C/C++ w/ microcontroller & LCD interfacing), Discrete Mathematics, Probability and Random Processes

Experience

IBM, Software Engineer **September 2015 – January 2016**

Advanced Cloud Infrastructure Team

- Integrated early cloud initialization applications, Cloud-init and Config Drive, for baremetal systems on OpenStack
- Worked with SoftLayer technology to initialize and develop on virtual server machines

IBM, Software Engineer **May 2015 – August 2015**

Linux Technology Center Team

- Created a continuous integration environment for OpenStack Ironic, which is OpenStack's baremetal provisioning program
- Automated testing through Jenkins, as well as managed many nodes and virtual machines through Puppet

Projects

DoDates **September 2015**

With a simple picture or a document, create calendar events and reminders automatically using tesseract (an OCR library)

- Microsoft Azure as backend for the web app
- Python's OCR library for recognition of characters for date extraction

Reddit CLI **April 2015**

An interface in terminal to access Reddit via Google App Engine's Web App Services, Reddit's API and Python's cmd module

- Built using Google's cloud platform as backend service for the app
- Accessed Reddit's API for verification of user account, and to receive the data requested

Flappy Bird 2.0 **May 2014**

An implementation of Flappy Bird with Assembly/C and hardware instruments such as TI Launchpad microcontroller and an LCD

- Designed the circuitry for I/O interfacing (e.g. buttons and display)
- Integrated systick timer for periodic update of display and handlers to handle input from user

Spicy Circuits **November 2013**

An image-processing algorithm to understand a drawing of a circuit and create a digital representation of the circuit

- Using OpenCV, a computer vision library, I was able to identify basic circuit components (e.g. resistors and voltage sources)
- Useful for verification of manual circuit analysis and elimination of digital circuit drawing

Skills

Python, C/C++, Bash Scripting, Linux, Jenkins, Puppet, OpenStack, Assembly, microcontrollers, MySQL, Web Development, Java, OOP

Achievements/Activities

- HackTX 2013, HackTX 2015 (Featured as best hack), Cal Hacks 2.0 2015
- FRC Robotics team (2011 - 2013) –went to state level competition and placed in top 10
- Lead Guitarist and Music Director at Austin Christian Fellowship of India (ACFI)