Chaitanya Vadrevu

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Seeking a full-time position from July 2016

Work Experience

National Instruments – Austin

Software Engineer Intern   *Jun 2015 – Aug 2015*
- Linux Kernel driver development for next generation FPGA based products of NI
- Ported existing driver to new products, added new functionality, debugged performance issues

Samsung R&D Institute India – Bangalore

Senior Software Engineer   *Jan 2012 – Jul 2014*
- Linux Kernel driver development for Android devices in Systems Software team
- Fixed critical issues in 30+ models including the flagship Galaxy S series models
- Worked with hardware R&D teams, chipset vendor, peripheral vendors to debug and fix issues
- Developed a tool in free time to graphically analyze code flow.
- Developed a tool in free time to aid in debugging touchscreen issues. Tool currently being extended for team wide adoption
- Identified need for automatic chipset pin configurations and developed a driver for the same

Gameloft S.A. – Hyderabad

Jr. *Game Programmer*   *Dec 2011 – Jan 2012*
- Porting, bug fixing of J2ME, Android games for different handsets
- Worked on popular titles such as *Sonic the Hedgehog*, *Gangstar Rio*, *Tintin*

Education

Texas A&M University – College Station

Master of Science in Computer Science   *Sep 2014 – May 2016 (expected)*
- GPA – 4.0/4.0
- Courses – Compiler Design, Advanced Compiler Design, Analysis of Algorithms, Digital Image, Software Engineering
- Compiler Research in Parasol Lab

Jawaharlal Nehru Technological University Hyderabad College of Engineering

B.Tech in Electrical and Electronics Engineering   *Aug 2006 – Jun 2010*
- 81.55% ≈ 3.83/4.0
- Project on Power Quality Analysis through Artificial Neural Networks

Projects

Academic:
- Implemented optimization passes for a source to source Fortran compiler using Minipolaris framework. Parallelized loops by adding OpenMP annotations
- Wrote optimizing compiler for DECAF programming language for Compiler Design course
- Developed a Ruby on Rails application as a team project to help students train themselves in the 13 Virtues of Benjamin Franklin
- Implemented filters, affine/non-affine transformations, seam carving for image manipulation

Personal:
- Created a Ruby on Rails application (http://gradesearch.chaitanyavadrevu.com) to search for previous term grades of TAMU
- Developed *Ball bouncer* – a game on the popular game Breakout, written in Java
- Developed a download manager in Java capable of spawning multiple downloads with the ability to pause/resume download