VIVEK CHAND

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OBJECTIVE

To pursue a challenging career in your esteemed organization where I can effectively contribute my skills as competent Software Professional, possessing very good Technical Skills and where I can contribute and update my knowledge on new technologies

SUMMARY OF QUALIFICATIONS

1.5 years of System Simulation & Modeling experience, a Bachelors degree in Computer Science Engineering, and a Machine Learning Enthusiast.

- Participated in MOOC ml-class conducted by Dr.Andrew Ng on Machine Learning
- Built a Binary Classifier of 99.52% accuracy on TwitMiner contest conducted by IISc & Amazon
- Presented at ISCUG 2012 an introductory tutorial on SystemC & TLM2.0
- C-DAC Certified Professional on Linux Kernel Programming & Device Drivers
- Secured 77.17% in BE(CSE) at Dr.AIT, Bangalore (VTU).
- Secured 84.16% in PUC(PCMC) at KLE Indn' PU College, Bangalore.
- Secured 86.16% in SSLC at East West Public School, Bangalore
- Especially skilled at C, C++, Python, Core Java
- Extensive knowledge of Machine Learning, Artificial Intelligence
- Expertise in OS Internals
- Extensive knowledge of Embedded Linux, Embedded Hardware (RasPi)

ABOUT.ME

- Has Clarity in anything he does.
- Accepts mistakes & learns from mistakes
- Boldly accepts "I don't Know" if I really don't know about something.
- Tries to keep things as simple as possible
- His Dream Project is to build a model of Human Brain which can solve the most complicated problems built from scratch the hardware till the upper most stack via Machine Learning, Artificial Intelligence & Chip Designing Technologies

CODING

- Can code easily in C, C++, Python, Core Java.
- Keeps Solving many programming puzzles in Spoj, HackeRank, HackerEarth
- Started solving ML puzzles in kaggle

WORK EXPERIENCE

Company Name, CircuitSutra Technologies Pvt Ltd September 2011 to January 2012
Position

- Worked as SoC Modeling Engineer, involved modeling Hardware IPs to integrate into Virtual Platforms for Early Sofrware Development.
- Worked in Team of 2 on multiple projects
- Worked on an Evaluation Project for Nikon to build a Virtual Platform which was able to boot Linux in 6 seconds.
- Worked on LibUSB for USB Virtualization to access a physical USB device from Virtual Platform, an Carbon Project. My task Involved providing API for SystemC/TLM based virtualization module to communicate with Physical USB device

Language: C, C++
Libraries: SystemC, TLM2.0, LibUSB

Company Name, Texas Instruments February 2012 to December 2012
Position (on Contract)

- Worked as Virtualization Engineer, involved modeling Hardware IPs to integrate into Synopsys Virtualizer.
- Worked in Team of 3 on multiple projects.
- Developed a module for communication between TI CCSv5 (Code Composer Studio) and Synopsys Virtual Platform using the APIs exposed between the both to synchronize between calls.
    - This task involved wrapping processor models like ARM Cortex-M4F, Benelli, etc. for OMAP6 SoC
    - The most challenging task was to keep synchronization while debugging applications running on Synopsys Virtual Platform providing common debugging tools like Start, Stop, Step In, Step Out, Look at Register, Look at Memory etc. from TI's CCS
    - The communication was through TCP/IP
- Developed Port Connect Module for Synopsys Virtualizer
- Worked on Integrating various Hardware IP Models like IVAHD, ISS(Imaging Sub System) in Synopsys Virtualizer for OMAP6 SoC
- Worked on an IP-XACT Migration Task which involved adding routing information on various interconnects from the information provided as separate csv file. This involved creating a tree of nodes (Masters or Slaves) and internal nodes being Interconnects.

Language: C, C++, Python, Core Java
Libraries: SystemC, TLM2.0, LibUSB, TI SSI (System Simulation Interface), Synopsys SystemC/TLM, TGI (Target Generator Interface)

EDUCATION

B.E. Computer Science Engineering, Dr.AIT, Bangalore (VTU) 2011
Graduated with 77.16% aggregate

- **Project1:** MOS: Operating System to Exploit multicore/manycore chips to fullest via Deterministic Parallelism (C, Assembly)
- **Project2:** 3D Shooting Game (C++,OpenGL)

PUC. PCMC, KLE Indn' PU College, Bangalore 2007
Secured 86.16%

SSLC, East West Public School, Bangalore 2005
Secured 84.16%

COMPUTER SKILLS

Programming: C, C++, Python, Core Java
Scripting: Bash
Libraries: SystemC, TLM2.0, scikit-learn
Engineering Software: Synopsys Virtualizer, TI CCS, Eclipse, Microsoft Visual Studio, gcc
Office Applications: MS Office, Libre Office, Google Docs
Platforms: Ubuntu, OpenSuse, Fedora, Windows XP, 7

LANGUAGES

English, Hindi, Kannada, Tamil, Sourashtra

ACTIVITIES AND INTERESTS

Gardening, Cycling, Computers, Raspberry Pi, Machine Learning(scikit-learn), Artificial Intelligence, Self Driving Toy Car(Neural Network based), OS Kernels (Gravel Kernel) & loves solving programming puzzles