Obulapathi N Challa

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Objective

Seeking a full-time job in the areas of Big Data and Cloud Computing.

Skills

Software: Python, C, C++, Java, Bash, Linux and UNIX
Cloud Computing: Hadoop, Hive, HBase, Mahout, Amazon AWS and Google Cloud
Web Stack: HTML, CSS, JSON, REST, MySQL, NoSQL, Twisted
Networks: Computer, Wireless and Ad Hoc Networks, TCP/IP, 802.11, 802.15, NS3
Others: Vim, Git, GDB, Computer, Network and Data Security

Education

University of Florida   Fall 2008 - Fall 2013
PhD in Electrical and Computer Engineering   GPA: 3.52
Dissertation: CubeSat Cloud, a framework for distributed storage, processing and communication of remote sensing data on CubeSat clusters
University of Florida   Fall 2008 - Fall 2010
Masters in Electrical and Computer Engineering   GPA: 3.58
DAIICT   Fall 2003 - Spring 2007
B.Tech. in Information and Communication Technology   GPA: 3.67

Experience

Software Development Engineer Intern at Amazon AWS   Summer 2013
Designed and developed CSD transport mechanism for synchronizing Master and Slave databases. Implemented reliable asynchronous APIs for registration and database record transportation based on C++ Boost asio library and Google ProtoBuffers.
MAC Protocol Developer Intern at xG Technology   Fall 2011
Worked on xMax, a real-time data and voice protocol. Designed, developed and tested the xMax logging Linux kernel module. xMax Logger collects network information and statistics from xMax MAC and reports them to proc filesystem and xDrive log viewer.
Radio Software Integration Intern at BlackBerry   Summer 2011
Did board level and Wifi testing on BlackBerry smart phones; Wrote python scripts to extract failures from logs and analyzed them to root-cause the calibration issues.
Research and Teaching Assistant at University of Florida Spring 2009 - Present
Designed and built CubeSat Cloud; Contributor to SwampSat; TA for Wireless Networks.
Research Assistant, Research Engineer at DAIICT   Fall 2006 - Summer 2008
Built CENSE sensor network; lead WildCENSE and Tiger Image Sensor Network projects; Managed the Embedded Systems and Sensor Networks Research Lab.

Projects

CubeSat Cloud   Fall 2010 - Fall 2013
Designed and implemented "CubeSat Cloud", a framework for distributed storage, processing and communication of remote sensing data on CubeSat clusters.
FUNSAT V & VI   Fall 2008, Fall 2009
Lead UF's Small Satellite LASER Communication subsystems team in FUNSAT V and FUNSAT VI; Bagged first prize in FUNSAT-V satellite design competition held by NASA.
CENSE, WildCENSE and SmallCENSE   Fall 2005 - Spring 2008
Designed and developed CENSE, a delay tolerant WSN testbed for monitoring the habitat of wildlife. Developed WCFFS flash file system and wrote several device drivers.

Activities

GatorLUG University of Florida Student Group   Fall 2009 - Spring 2013
Organized and / or taught classes on Python, C++, Android and Cloud Computing.
ASHA, GDG, ICEC, SSDC   Fall 2008 - Spring 2013
Member, active participant and volunteer of the above mentioned clubs.