PAVAN KUMAR PALURI

linkedin.com/in/pavan-kumar-paluri-19940619 ⋄ github.com/pvpk1994

pavanpal.com

pvpk1994@gmail.com ⋄ +1 (281)690-6216

EDUCATION

PhD in Computer Science   *August 2017 - Present*
University of Houston   Houston,TX
GPA: 3.37/4.00

Master's in Computer Science   *August 2016 - May 2017*
University of Houston   Houston,TX
Course Credits transferred towards PhD

Bachelors in Computer Science and Engineering   *August 2012 - June 2016*
VIT University   Chennai,TN,India
Project: Smart Automobile System using ARM LPC-2148 Microcontroller
GPA: 8.12/10.00

TECHNICAL STRENGTHS

Computer Languages	C/C++, R, Swift, HTML 5 and CSS 3
Software & Tools	Libxl tools (XEN), Wind River, Keil, Flash Magic, XCode, Brackets
System Schedulers	Linux Scheduler, XEN schedulers, RT-XEN Schedulers
Kernel Development	Linux Kernel (XEN-RRP scheduler)
Virtual Machines	Xen, VMWare

EXPERIENCE

Research Assistant   August 2017 - Present
Real-Time Systems Laboratory, Dr.Albert M.K.Cheng   *University of Houston,TX*

· Implementation of Hierarchical Real-Time System Regularity based Resource Partitioning (HiRTS-RRP) Model on Xen Hypervisor
· Task Mapping of RRP Model
· Introduction of Fault Tolerance on HiRTS RRP Model
· Analysis of existing Xen and Linux Schedulers
· Introduction to Linux Kernel programming

Teaching Assistant   August 2017 - Present
Operating Systems (COSC 3360/6310) Dr.Albert M.K.Cheng - Undergraduate Course

· Graded In-class, homework, programming, pen-paper exams of the students
· Provided explanations to the students to help them understand the concepts of operating systems

Computer Networks (COSC 4377) Prof.Kevin Long - Undergraduate Course

· Graded In-class, homework, programming, pen-paper exams of the students
· Provided explanations to the students to help them understand the concepts of Networks

Operating Systems (COSC 6360) Dr.J.F.Paris - Graduate Corse

· Graded Programming assignments of the students
· Helped Students understand the concepts on how to build a basic shell, mutex locks, pipes, etc..,
· Developed Shell scripts to automate the process of plagiarism checks on student submissions (Intra-class plagiarism checks) using a similarity tester software.

· Held weekly office hours throughout the semester

Embedded Systems Intern   December 2014 - January 2015
Indo German Institute of Advanced Technology   *Vizag,India*

· Knowledge and hands-on experience on ARM Microcontrollers
· Received Certificate of Successful completion of internship within a month

RELEVANT COURSES

Core Courses   **Other Courses**
Real Time Systems (Research Area)   Software Design
Operating Systems   Machine Learning
Computer Architecture   Statistical Methods in Research

PUBLICATIONS

1. **Pavan Kumar Paluri**, Guangli Dai, Albert Cheng. Task Mapping in a Regularity-based Resource Partitioning Hierarchical Real-Time System. At *Work-in-Progress Proceedings of 30th Euromicro Conference on Real-Time Systems*, ECRTS 2018. Barcelona, Spain.

2. **Pavan Kumar Paluri**, Carlos Rincon, Kevin Bailey, Guangli Dai, Albert Cheng. Implementing the Regularity-based Resource Partition Model on RT-Xen. At *Work-in-Progress Proceedings of 30th Euromicro Conference on Real-Time Systems*, ECRTS 2018. Barcelona, Spain.

3. **Pavan Kumar Paluri**, Guangli Dai, Albert Cheng. RRP Edge Computing System . At *1st International Workshop on Trustworthy and Real-time Edge Computing for Cyber-Physical Systems (TREC4CPS)*, RTSS 2018. Nashville, Tennessee, USA.

OTHER

· Udemy: Successfully completed 12.5 hours of Build Responsive Real World Websites with HTML 5 and CSS3

· English, Hindi and Telugu Speaker

· Pokemon Trainer - Nintendo Switch

· British Television Shows Enthusiast