Rohith R

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Education

BITS Pilani, India
Bachelor of Engineering (Hons.), Computer Science, 2017.
Cumulative Grade Point Average (CGPA) : 7.145
Fields of interest: Operating Systems, Computer Architecture,
High Performance and Parallel Computing

Bachelor Thesis

Simulation and Scheduling of Many-Core Architecture
Supervisor : Dr. Lam Siew Kei, Nanyang Technological University

Research involves finding efficient scheduling algorithms taking into consideration the effects of difference in the performance of the cores and their reliability.

Work Experience

Intuit IDC, Bangalore
Software Developer Intern
Project: Enabling Drag-and-Drop in Multi-Window mode, android-N

State e-gov agency, Chennai
Software Developer Intern
Project: Track the bus timings, frequency and routes in real time
and update the user using an app

Projects

BITS-OS
Basic OS from scratch, for learning low level operations of OS
Implemented VGA, keyboard, hardware clock drivers along with mini shell

MIT-JOS
MIT-6.828 Postgraduate OS Labs
Implemented Paging, Memory and Process Management

Improve efficiency of C++ Thrust Library
Mentor : Dr. Santonu Sarkar — Collaborators : Siemens Research Lab
Introduced the concept of shared memory as software controlled cache
Improved efficiency and decreased LOC

MIPS Architecture and Cache design
Mentor : Dr. Biju K.R.
Implemented VLIW architecture with 5 stage pipeline
Studied and implemented advanced caches like Phase, Way-Prediction
and Way-Halting caches

Teaching/ Mentoring	**Department of Computer Science, BITS Pilani** Teaching Assistant, Data Structures and Algorithms, Spring,2016 **Technology Incubator Programme, BITS Pilani** Project Mentor, Operating System from Scratch, Fall, 2015 Project Mentor, Intro. to Competitive Coding, Fall, 2014 ans Spring, 2015
Skills	C++/C, Java (Android), Python, Cuda, Verilog, PHP & MySQL
Co-curricular	Vice President, ACM Chapter, BITS Pilani Goa Campus Developer @ Mobile App Club, BITS Pilani Goa Campus
References	Dr. Lam Siew Kei School of Computer Science Nanyang Technological University siewkei_lam@pmail.ntu.edu.sg, Dr. Biju K.R. Dept. of Computer Science and Information Systems BITS Pilani biju@goa.bits-pilani.ac.in, Dr. Santonu Sarkar Dept. of Computer Science and Information Systems BITS Pilani santonus@goa.bits-pilani.ac.in,