Ashish Jindal

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Education

Rutgers University - New Brunswick — New Jersey, US
MS in Computer Science; GPA : 4.0 — *Aug, 2015 – May, 2017*

- Key Courses: Data Structures and Algorithms, Operating Systems Design, Database Systems Implementation, Computer Networks, Computer Architecture.

National Institute of Technology - Hamirpur — Himachal Pradesh, India
B.Tech. in Electronics and Communication Engineering; CGPI : 7.83 — *Aug, 2008 – May, 2012*

- Key Courses: Digital Electronics and Logic Design, Data Structures, Microprocessors, Embedded System Design.

Research Experience

Wait-free Memory Allocator (Ongoing): This project aims at building a wait-free memory allocator for multi-threaded environment. Existing memory allocators being either blocking or lock-free can't guarantee per thread progress which gives our memory allocator an edge as the wait-free implementation provides guaranteed system-wide throughput with starvation-freedom.

Work Experience

CAIT, Rutgers University — Mar, 2016 – Aug, 2016
Software Developer

- Implemented a web application for creating and interacting with 3D models of bridges using their structural properties as input. Also developed a feature to place/mark defects on the bridge via interacting with the 3D model.

Nagarro Inc — Jul, 2012 – Jul, 2015
Software Developer

- Worked on a Java based supply chain management system for a leading European airline company. Upgraded data export services of the application using Apache poi-SXSSF, implemented reusable front end components using Apache Tiles and wrote back-end services with Spring framework.
- Actively involved in development and maintenance of a WIN32 and MFC based desktop application. Work involved implementing frond-end components and back-end services using C/C++ (WIN32/MFC). Awarded with "Most Promising Fresher" award for my work in this project.

Projects

Linux Scheduler: Implemented multi level feedback queues based scheduler in Linux kernel 2.4 and verified its improved performance over the older O(n) scheduler. Also handled priority inversion scenario in the scheduler implementation using priority parenting strategy. [C]

Simple File System: Implemented a basic version of Unix File System using Fuse module. Files system supports create/delete/read/write of files using direct indexing and also supports mkdir/rm/ls on directory entries. [C, Fuse]

Wikipedia data analysis using Hadoop: Analysed Wikipedia page view count logs using a simple baseline algorithm to find the trending Wikipedia pages in the sampling interval. Also compared the relative page ranks of Wiki pages using Map-Reduce. Nominated as best class project. [Java, Hadoop, MongoDB, SpringMVC, AWS]

Skills

Languages: C (Proficient), C++ (Intermediate), Java (Intermediate), JavaScript (Intermediate), SQL (Beginner)

Technologies: MongoDB (Beginner), SpringMVC (Intermediate), Hibernate (Intermediate), Spring Security (Beginner), Apache Tiles (Beginner), ThreeJS (Beginner), Bootstrap (Intermediate), Kendo (Beginner), Hadoop (Beginner), AWS [S3, EMR, EC2] (Beginner)