

# 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.
- **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, Micro-Controllers and Embedded System Design, Mobile Communication, Differential Equations and Probability.

## Work Experience

- **Software Engineer, Nagarro** Jul, 2012 – Jul, 2015  
*Quicken: Windows based personal finance management application.*
  - Revamped a custom WIN32 control – Quickfill and improved it's service via caching and asynchronous data loading.
  - Redesigned application controls by writing C++ wrappers over WIN32 implementation; to help facilitate easier debugging and extensibility.*Unified Fleet Distribution system: Windows based fleet management application.*
  - Ported the server side C++ code from x-86 to x-64.
  - Implemented an application to automate server log analysis and report generation.*Ldrive: Java based Web application for a supply chain management system.*
  - Implemented data export services in the web-application using Apache poi.
  - Provided L3 and L4 support service to the client.

## 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. File 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]

**Web based Employee portal:** Implemented an employee portal application for a call center company as a free lancer project with features including work tracking, shift management, payroll management, holiday/leave management and performance tracking. [Java, Spring, Hibernate, Apache Tiles, Bootstrap]

## Awards

**Most Promising Fresher:** Received this award from my employer - Nagarro.

**Gold Medal:** Won gold medal in National Mathematics Olympiad, India.

## Skills

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

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