# Aravind Balasubramanian

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## EDUCATION

- **Masters in Computer Science**, NC State,   GPA: 3.61           **Aug 2011 - May 2013**
- **Bachelors in Information Technology**, Anna University**,** India       **Sep 2005- May 2009**

## EMPLOYMENT

**Student Programmer     Office of Research and Innovation, NC State        Sep 2012 (Current)**
- Web Application development based on Java, J2EE, ASP.NET and VB.NET.
- Support – responsible for fixing bugs and troubleshooting existing web applications.

**Network Systems Co-Op        Norfolk Southern Corporation         June 2012 – Aug 2012**
- Device Management - configured CISCO routers, switches and VPN ASAs based on OSPF areas.
- Standardized the configuration of routers, switched and VPN ASAs for turn over from Network Projects team to support team
- Support for existing networks using HP Network Automation tool

**Project Engineer               Wipro Technologies, India          Feb 2010 – Aug 2011**
- Production Support for applications including PeopleSoft Finance, HR, and Recon.
- Web Server/ App Server Administration - coordinated with DBAs/SA to schedule regular maintenance.
- Handled space and CPU utilization issues in Windows/Unix servers by compressing files or killing CPU intensive tasks.
- Shift Lead - Built the schedule rotation for a 12 member team.

## TECHNICAL SKILLS

- **Programming Languages:** C, C++, JAVA, J2EE, Ruby, and Ruby on Rails
- **Database:** Oracle SQL, Microsoft Access.
- **Tools:** Eclipse, Ruby mine, Control-m, HP Service Manager, OPNET, MATLAB, IBM RSA, HP Network Automation
- **Operating Systems:** Windows, Linux (Ubuntu), UNIX.
- **Protocol suites and Hierarchies:** OSI, TCP/IP, UDP, RIP, BGP, IGP, OSPF.
- **Courses:** Algorithms, Enterprise Storage Architecture, Object Oriented Languages and Systems, Computer Networks, Wireless Networks, Internet Protocols, Computer and Network Security

## PROJECTS

- *Data Deduplication in Network File System -* Developed an inline variable block size Data Deduplication in a Linux based Network File System.

- *End to End Packet Delivery in a Virtual Network -* Simulated an environment where packet is transmitted end to end based on Link State Routing with CSMA/CD

- *Multi-hop Internet (Android Application)* – Developed an Android Application that allows tethering over Bluetooth over several hops.

- **A Self Stabilizing leader election algorithm in a highly dynamic ad-hoc mobile network:** Simulated the leader election algorithm that ensures there is always a unique leader in the cell despite concurrent topological changes that accompany an ad-hoc mobile network.

- *Expertiza (Open Source Development Project based on Ruby on Rails) -* Aggregated meta-review scores and teammate review scores to complete a 360-degree assessment of a student.

- *e-Help Desk* - J2EE based project to implement ticket routing among different levels of support.