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## Summer Internship

OBJECTIVE	To intern at a reputed research enterprise with futuristic research vistas in wireless networks and mobile computing		
TARGET JOB	Desired Job Type:	Intern, Temporary/Contract/Project	
	Desired Status:	Full-Time, Part-Time	
	Desired Salary:	Negotiable	
	Site Location:	No Preference	
	Description of my perfect job:	Design and implementation of a medium to big software project where my contributions will be key. Ideally it should be a healthy combination of research as well as implementing those ideas. Preferred field is wireless sensor networks, personal area networks, internet security, protocols and scalable systems.	
	Career Level:	Student (undergraduate/graduate)	
	Date of Availability:	Negotiable	
TARGET COMPANY	Company Size:	No Preference	
	Category:	Computers, Software	
	Description of my ideal company:	An open enterprise that is a visionary in the field of wireless, internet security and peer-to-peer systems.	
TARGET LOCATIONS	Relocate:	Yes	
	US		
WORK STATUS	US	I am authorized to work in this country for any employer.	
EXPERIENCE	2/2001 - 12/2001	Mindtree Consulting	Bangalore, India
	Software Engineer		
	I joined Mindtree as soon as I finished my bachelors. My responsibilities included designing and implementing several medium-sized software modules. These were developed in various languages, including Java, C, C++ and PERL.		
	Summary of some interesting projects:		
	Developed reentrant libraries in C, C++ and Java. The library provides a set of APIs to a IMAP-like protocol, used for the administration of a message server.		
	Designed and implemented a NNTP-IMAP gateway. A new storage method was provided to the INND news server, which enables storing news messages in a given IMAP folder.		
	Was part of a team that designed USB drivers for UHCI controllers, the platform was VxWorks.		
	Asynchronous mail notification using PERL, LDAP and UDP.		

## EXPERIENCE

1/2001 - Present                      Dataman Lab, Rutgers                      New Jersey

### Research Assistant

I am a student in the ECE department; I have received a research assistantship in the Dataman Lab (<http://www.cs.rutgers.edu/dataman>). Our focus is in wireless sensor networks, mobile computing and peer-to-peer systems.

These are some of the projects I have worked on:

Implemented a gateway between sensor networks and the Internet. Using my framework, computers on the Internet can seamlessly communicate with sensor networks. We used TinyOS running on Rene motes on the sensor network.

OS Project: User Level Threads on Solaris, Replicated Filesystem and cache-affine, multiple run queue Linux scheduler.

Software Engineering Project: Real-time duplex voice communications using JMF.

Communications Network: Simulated protocols like BGP, Multicasting using a Java framework.

Computer Networks: Designed and implemented a peer-to-peer web server, using the Chord API. Our idea was to enable mobile users to seamlessly query and download information in mobile networks based on location.

## EDUCATION

12/2002                                      Rutgers                                      US-New Jersey-Piscataway

### Master's Degree

I am currently exploring the possibility of shifting my department and pursue a CS degree.  
My current GPA is 3.8

9/2000                                      BMS College of Engineering      India-Karnataka-Bangalore

### Bachelor's Degree

Secured a degree in Electronics and Communication, with a distinction in my final semester and a first class overall.

## SKILLS

Skill Name	Skill Level	Last Used	Experience
Java	Expert	Currently used	2 years
C++	Intermediate	1 year ago	1 years
C	Expert	Currently used	3 years
PERL	Expert	1 year ago	1 years
Linux	Expert	Currently used	3 years
NS2	Beginner	Currently used	0 years
TinyOS	Intermediate	Currently used	1 years
Tcl/Tk	Beginner	Currently used	0 years

## REFERENCES

Available on request

## ADDITIONAL INFORMATION

Please visit my Homepage at <http://www.cs.rutgers.edu/~ashwink/index.html>